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# BOSTON UNIVERSITY SCHOOL OF EDUCATION

Thesis

AN ANALYSIS OF WORKBOOKS IN ECONOMIC GLOGRAPHY

## Submitted by

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(B. S., Boston University, 1949)

In partial fulfillment of the requirements for the degree of Master of Education
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Sincere appreciation is hereby extended to Professor Lester I. Sluder for his untiring effort and guidance in directing this study.

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#### CHAPTER I

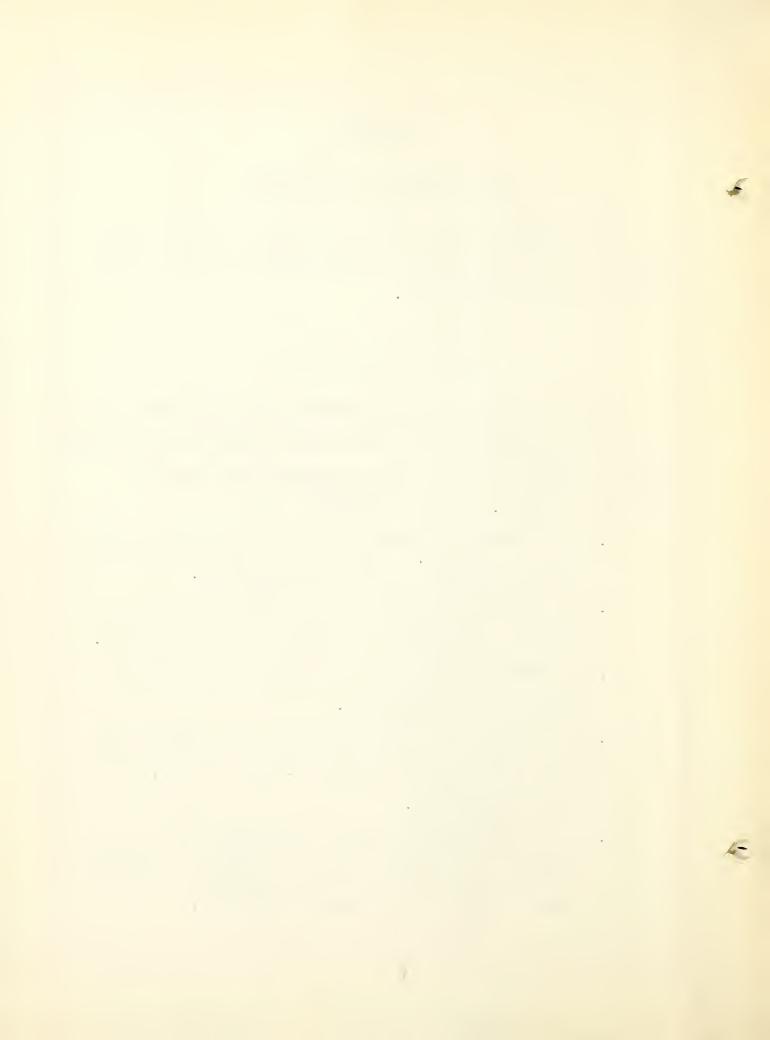
#### INTRODUCTION TO THE PROBLEM

The purpose of this study was to make a survey of the activities provided for high school students in eight work-books in economic geography.

#### Analysis of the Problem

After carefully analyzing research and publications in the field of workbooks, the following sub-problems were formulated in order to obtain a more comprehensive solution to the major problem. These sub-problems were:

- 1. To contribute specific data for evaluating the content of workbooks in economic geography.
- 2. To determine to what extent workbooks can aid pupils to study more economically and effectively.
- 3. To make a comparison of the kinds of activities found in these workbooks.
- 4. To determine the number and types of teaching aids which these workbooks provide, such as maps, graphs, and illustrations.
- 5. To provide data in graphic form which will enable teachers to interpret easily the physical construction of workbooks in economic geography.



#### Deli itati m of the Problem

In order to glide effectively the learning roces of the interest of the teaching-learning tools with high they are working.

Torkbooks have been every prominent in this subject matter field.

This study does not attempt to solve the so-called "evils" of using workbooks, but it is limited to the presentation of scientific, objective data concerning the activities that are presented in eight parkbooks in economic geography.

#### Definition of Terms

The Dictionary of Education defines a workbook as follows:

- 1. A study or learning guide for publis often related to a particular textbook or to sever 1 textbooks; may contain exercises, problems, practice materials, directions for use, space for recording answers, and frequently, means of evaluating the work done.
- 2. A supplementary or preparatory exercise or practice book in reading, used to give additional training not found in basic reading materials.

Jones<sup>2</sup> defines econonic geography as a study which

<sup>1</sup>Good, Carter V., Editor, Dictionary of Education, McGrav Fill Company, New York, 1945, p.453.

<sup>&</sup>lt;sup>2</sup>Jones, Clarence F., <u>Economic Geography</u>, The Mac illan Company, New York, 1941, p. 7.



"embraces a consideration of hunting, fishing, grazing, forest industries, mining, manufacturing, transportation, and trade."3

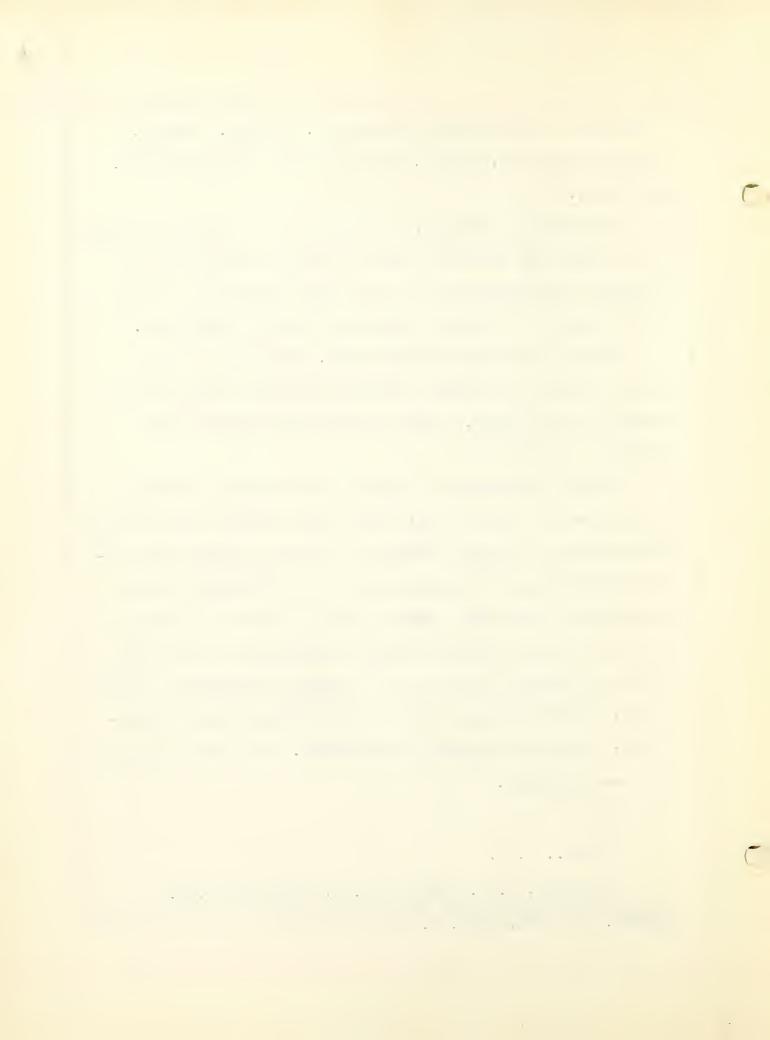
According to Ridgley, the purpose of economic geography is "to help the American youth to become acquainted with everyday surroundings and to sense the influence of these surroundings on current economic and social activities."

After a thorough investigation, the writer of this paper listed 19 component elements which were used as the basis for this study. These elements were defined and tabulated as follows:

General Activities - include advertisement writing; current events collections; check lists completion; exercise construction; free-hand drawing; library research; map construction (where an outline map is not provided); picture collections; recording weather cycle; outline development; picture studies; menu development; mathematical problems; debates; exhibits developed by students; experiments; field trips; planting seeds; poster construction; sample collections; and outside reading assignments. One unit is scored for each activity.

<sup>3</sup> Ibid., p. 7.

<sup>4</sup> Ridgley, D. C., Ekblaw, S. B. and Heans G. R. Influence of Geography on our Economic Life, Gregg Publishing Company, New York, 1938, p. iii



Charts - includes all information that was given in tabular form. One unit is scored for each chart that appeared.

Chart exercises - one unit was scored for each chart that the student is required to complete and/or construct.

Class reports - include all statements that were referred to the student for oral preparation. One unit was scored for each statement.

Completion - include all statements that called for short one or two-word answers, or short phrase answers.

Definitions - include all exercises that asked for the explanation of the meaning or meanings of a word. One unit was scored for each word the student is required to define.

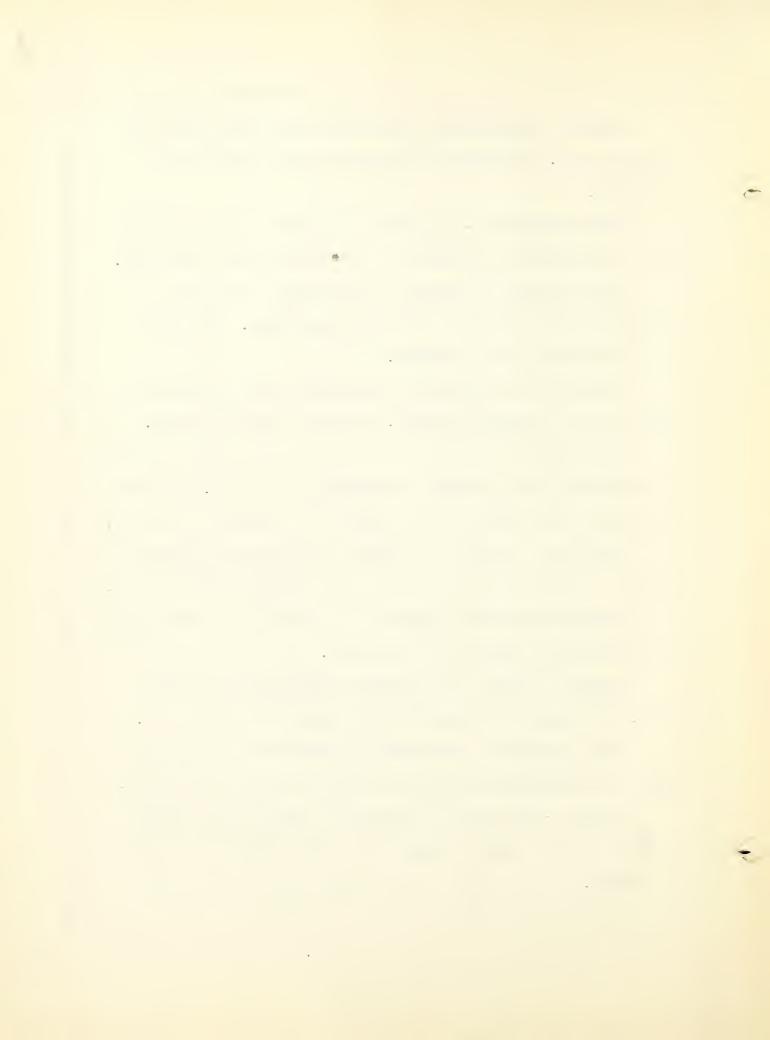
Diagrams - include all outline explanatory illustrations. One unit was scored for each diagram that appeared.

Diagram exercises - one unit is scored for each diagram the student was required to complete.

Graphs - include all material presented in graphic form. One unit was scored for each graph that appeared.

Graph exercises - one unit is scored for each graph that the student is required to complete and/or construct.

Listing - one unit is scored for each list of names, places, objects, and products that the student was required to create.



Map outlines - include any blank maps. One unit was scored for each map that appeared.

Map exercises - one unit was scored for each composite map activity that the student was required to perform.

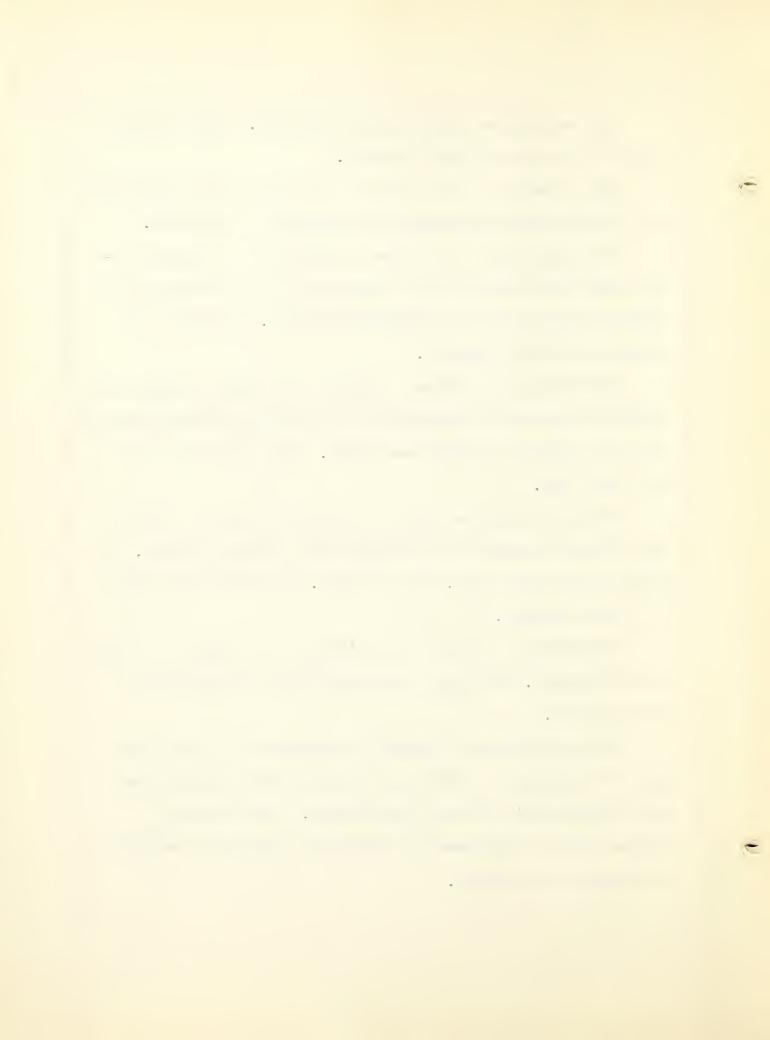
Matching items - includes all exercises in which student must pair items in one column with related items in a second column which is arranged by chance. One unit was scored for every stimulus.

Multiple-choice items - include all items to which the student responds by attempting to select the correct response from the several alternatives given. One unit was scored for each item.

Multiple-response items - include all items to which the student responds by indicating all correct answers, of which there may be one, two, or more. One unit was scored for each response.

Photographs - include all pictures or likeness obtained by photography. One unit was scored for each photograph that appears.

Study questions - include all exercises to which the pupil is required to think out the question carefully and then organize his answers accordingly. One unit was scored for each statement to which the student is required to think out an answer.



True-False questions - includes all items to which the student responds by indicating whether a statement is true or false. One unit was scored for each response.

### Justification of the study

Economic geography is a required subject in almost every high school business education program. Insofar as this writer can determine, there has been no previous study made of economic geography workbooks. In view of the fact that "the sales of workbooks in 1946 approximated 37 million copies and that workbooks and test material now consume nearly 25 per cent of the instructional budget," this study appears justifiable. The exact number of economic geography workbook sales is not available.

<sup>5</sup> Johnson, . P., "Then Came the Workbook," Journal of Education, vol. 131, February, 1948, p. 64



#### CHAPTER II

#### REVIE / OF RELATED INVESTIGATIONS

In view of the fact that according to best estimates
the "sale of workbooks and test material now consume nearly
25 per cent of the instructional budget," the amount of
research concerning workbooks is amazingly small.

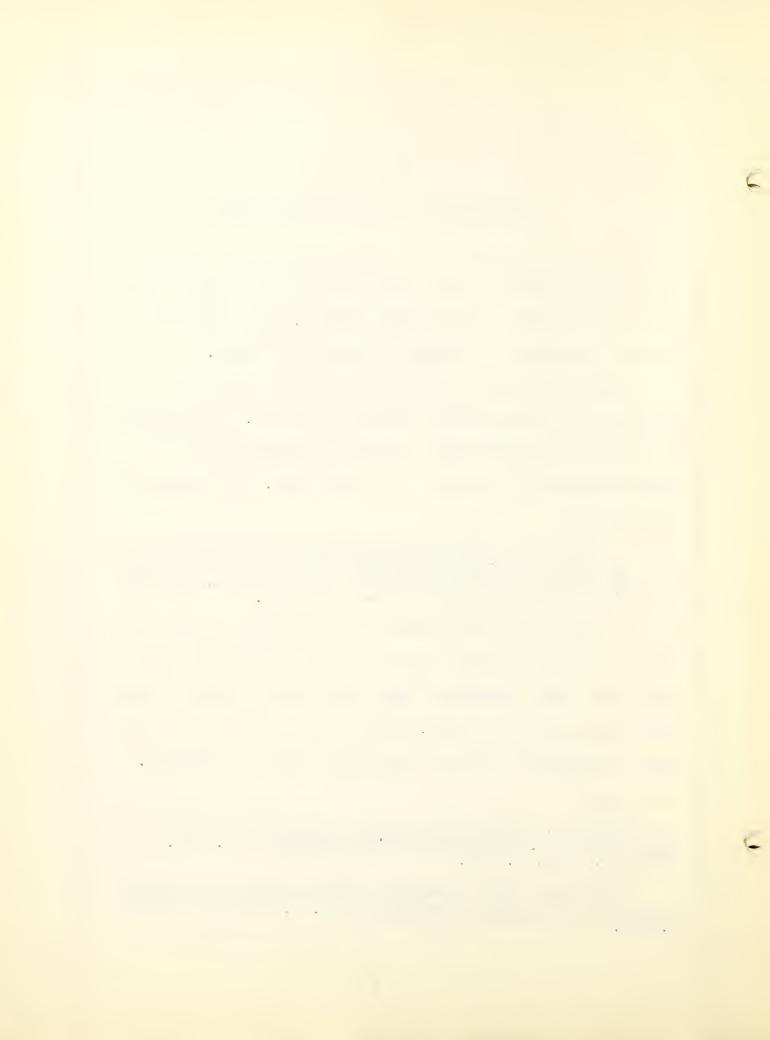
Among the first experiments published concerning work-books was one conducted in 1930-1931 by Hurd, who attempted to compare the conventional testbook-recitation plan of instruction with a special work-sheet plan. The author concluded that:

In some schools the differences clearly favor the worksheet plan; in others they favor just as clearly the textbook recitation plan. On the whole, the margin is in favor of the work-sheet plan.

In determining the relative effectiveness of workbooks and the oral-presentation methods in the acquisition of moral knowledge, Cressman<sup>2</sup> found that "the workbook method seems superior to the oral, particularly in getting transfers to materials different from those used in training."

lHurd, A., "A Textbook Versus Vorkbooks in Instruction," Educational Administration and Supervision, vol. 171, December, 1931, p. 661.

<sup>&</sup>lt;sup>2</sup>Cressman, Elmer, "Workbook Versus Oral Instruction," Journal of Educational Sociology, vol. 7, December, 1933, p. 253.



Peterson<sup>3</sup> conducted an experiment to evaluate the efficiency of published workbooks versus published notebooks in ninth grade general science and hile the findings suggested the probable but slight superiority of the notebook technique, the author felt that "one teacher may secure better results by use of workbooks and another by use of notebooks" and that the publi-made notebook "is slightly better for publis with lower IQ's and the workbook for publis with higher IQ's." 4

Tryon, 5 in sampling the opinions of a limited number of teachers, superintendents, and professors of education on workbooks, found that:

Sixty per cent of those individuals justified the workbook on the basis of its provision for the acquisition of habits and skills, 58 per cent on the basis of economy of time, 54 per cent on individualization of instruction, 53 per cent on providing a pore efficient beaching organization, 40 per cent on building a specific vocabulary, 32 per cent on simplifying examinations, and 31 per cent on the basis on practice material provided.

In a detailed study of 73 orkbooks in arithmetic made to determine the extent to which the content and the usage of these materials were in accord with conditions accepted

<sup>3</sup>Peterson, G. N., "Published Vorkbooks Versus Pupil-Lade Notebooks in Ninth-Grade General Science," School Review, vol. 43, October, 1935, p. 608.

<sup>4</sup>Ibid., p. 608.

<sup>&</sup>lt;sup>5</sup>Iryon, kolla W., "The Development and Appraisal of Morkbooks in the Social Studies," School Review, vol. 46, January, 1938, p.25.



as being favorable to learning, Andreen made the following summary:

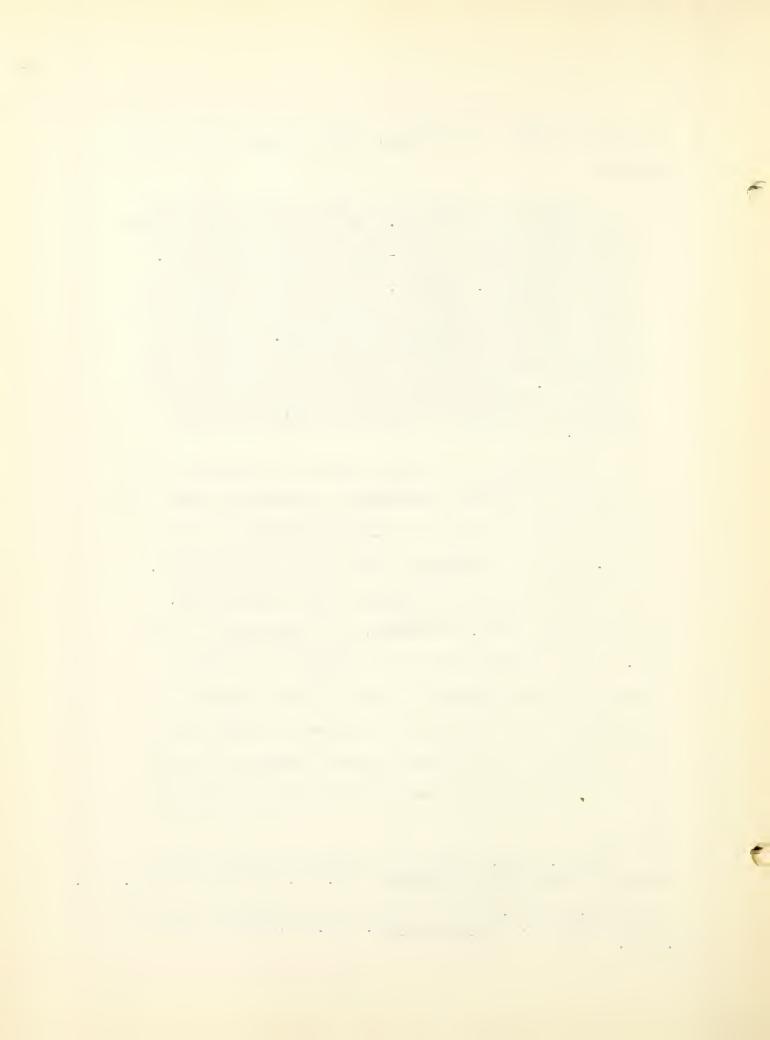
There is a great difference in the character and quality of workbooks. The study reveals further that only a small percentage of the workbooks can be characterized as self-administering materials. Controlled observation of the classroom usage of these materials, however, reveals that a majority of the teachers depend upon them to the extent that their own personality is almost entirely removed from the teaching-learning situation. Analysis of the content of workbooks gives evidence that these printed materials are not capable of providing this situation. Teachers who assign the teaching function to a printed page within a workbook are not giving the optimum of learning service to their pupils.

In determining the relative amount of emphasis given by 43 authors of history workbooks to particular abilities, Mead? found that "a total of 23,840 learning exercises" with "42.3 per cent devoted to ability to collect data. The next four in order of frequency were remembering, expressing one's self, observing, and organizing in that order." Mead concluded that the "neglect of problem solving abilities persists in spite of the warning of psychologists and experts on the subject of study" and that an improper relationship between reading and other abilities is demonstrated as the "writers of workbooks

<sup>6</sup>Andreen, Earl, "Study of Workbooks in Arithmetic,"

Journal of Educational Research, vol. 32, October, 1938, p. 114.

<sup>7</sup>Mead, Vera A., "Inat Abilities are Stressed in Norkbooks in History," School Review, vol. 47, April, 1939, p. 284.



assume reading to be four times more important."

A questionaire study on the use of reading workbooks conducted by a committee of the Association for Childhood Education reported by Betts revealed that:

Ninety per cent of the supervisors and principals and 86 per cont of the trachers reported a desire to make regular or occasional use of reading torkbooks. That workbooks are used widely is evident by the report that they are available in 87 per cent of the situations reported upon by principals and supervisors and in 66 per cent of the situations represented by the classroom teachers. Twenty-nine per cent of the classroom teachers resorbed the use of workbooks to keep the children busy or quiet. In the minds of the teachers the three most important specific values of reading workbooks were to provide necessary review and to fix vocabulary, to improve comprehension and to teach the child to follow directions. The chief objection to the use of reading workbooks reported by teachers were the cost, failure to provide for individual needs, and the amount of time required for supervision."

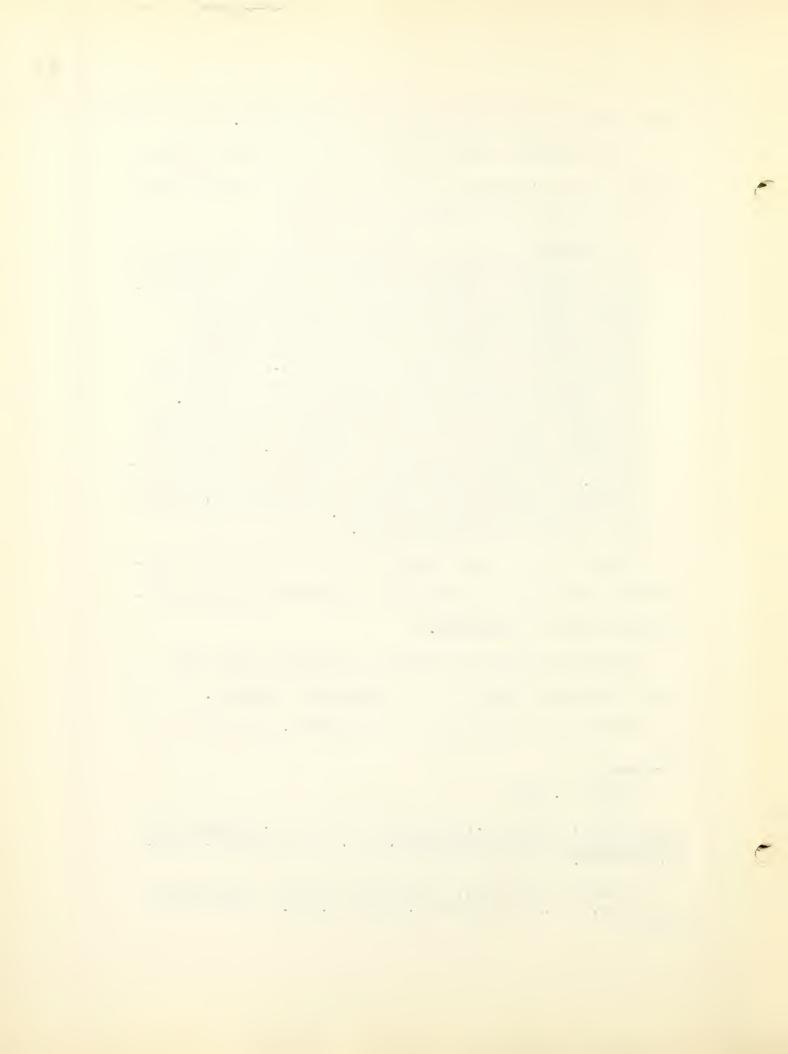
Betts felt that this report is one of the first substantial challenges to those who complacently make indiscriminate use of workbooks.

Brown10 conducted a survey to determine what high school students thought of the published workbook. Of the 155 students participating in this survey, all had used a

<sup>8</sup> Ibid, p. 284

<sup>9</sup>Betts, Emmett A., "Workbook Situation," Educational Administration and Supervision, vol. 27, November, 1941, pp. 372-373.

<sup>10</sup>Brown, Frederick, "Workbooks Wanted," The School Executive, vol. 61, February, 1942, p. 31.



workbook in the secondary school, 94 per cent had also used a workbook in the elementary school, and 145 students were using a vorkbook at the time of reporting. The student responses to a check list of advantages and disadvantages of the workbook found "over 83 per cent of the group favored it very much; 46 per cent to a moderate degree; 17 per cent disliked workbooks."11

Zetes<sup>12</sup> compiled research in analyzing eight workbooks in world history and found that the authors devoted 23 per cent of all the exercises to the recall type of question, more than two and two-tenths times that given to any other activity. His data indicated that:

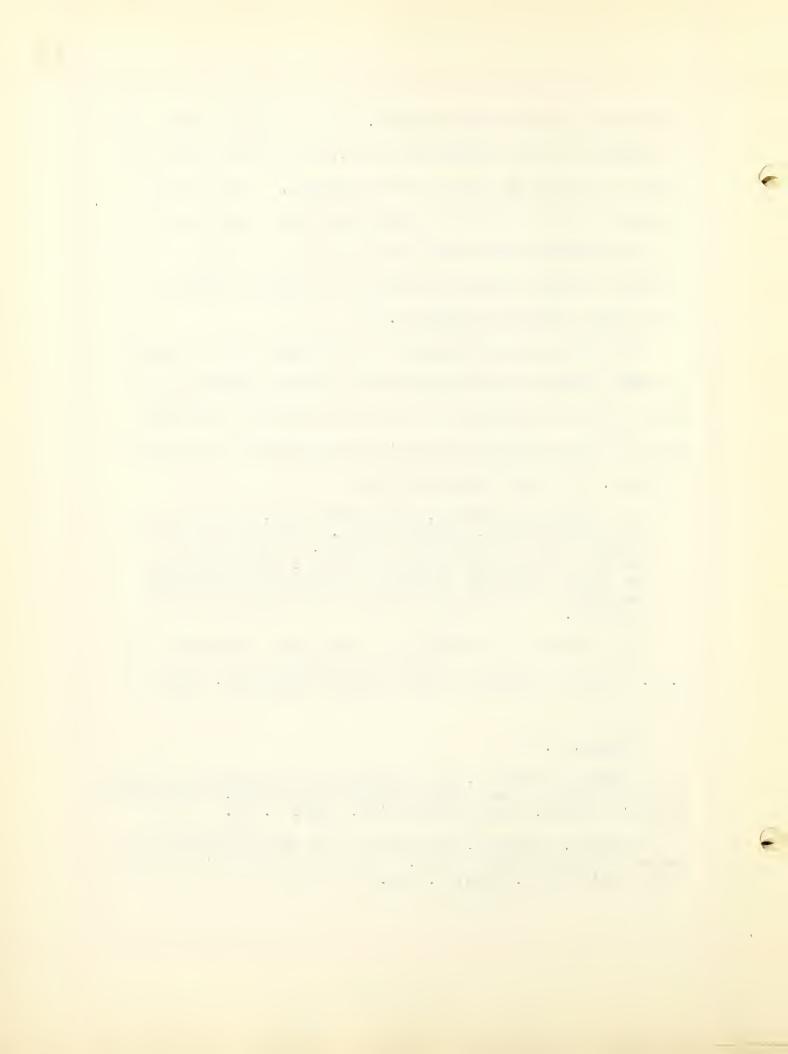
Recall questions, study questions, and map locational items, in that order, are among the first three component elements stressed. These absorb nearly 44 per cent of all the units, the first two of these component elements are commonly recognized as part of an attempt to direct the student in his reading.

In a survey to determine what materials workbooks in U. S. history contain and how they are organized, Megas 13

<sup>11</sup> Ibid, p. 31

<sup>12</sup> Zetes, Christie, "An Analysis of the Content of World History Workbooks on a Senior High School Level," Unpublished Master's Thesis, Boston University, 1948, p. 70.

<sup>13</sup>Megas, Nicholas, "An Analysis of World History Workbooks on a High School Level," Unpublished Master's Thesis, Boston University, 1948, p. 104.



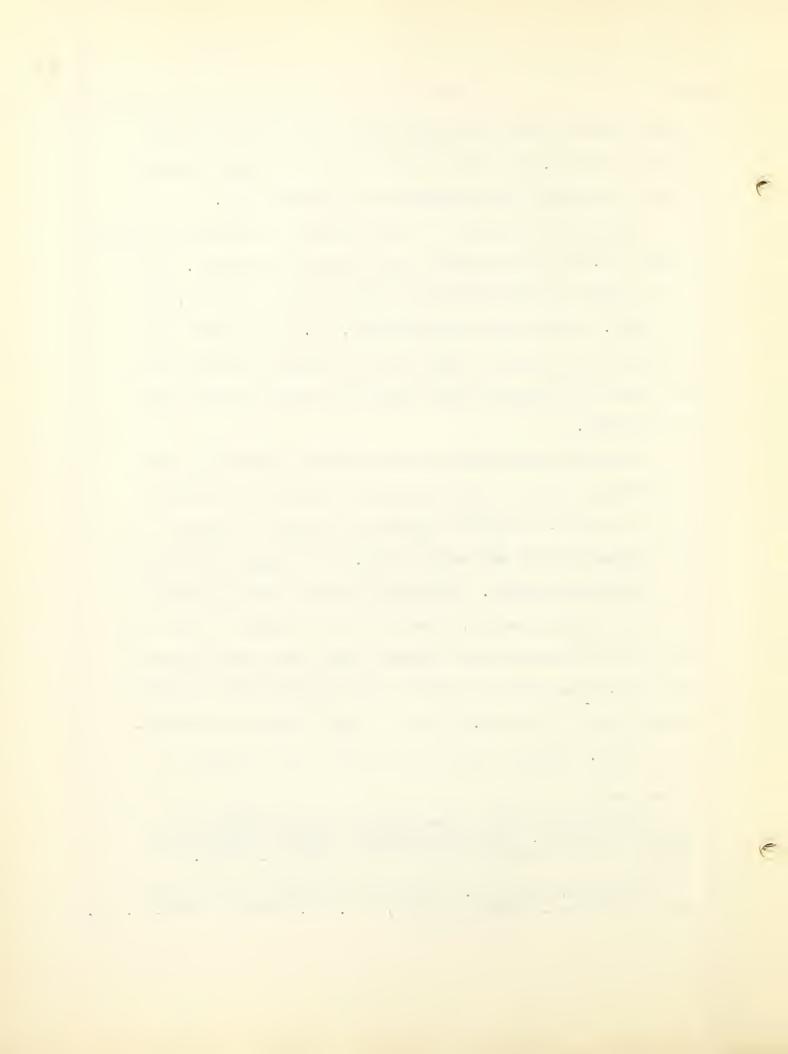
found that the most frequently used exercises are of the recall variety, and that the majority of workbook authors favor the use of the completion type of exercise.

Cronin's 4 analysis of ten workbooks in American history showed 19,496 opportunities for learning activities. The total number of opportunities ranged from a low of 1,200 to 3,458. Of all the opportunities, 22.76 per cent were in the recall area but even here the authors disagreed on the amount of emphasis that should be placed on this type of activity.

Comparing the values of the workbook method and the traditional method of recitation and discussion directed by the teacher, Motter 15 equated two classes in regard to sex, chronological and mental ages, and taught them in the two different methods. Using achievement tests at the end of a three-month period, she found the net gain of the control (textbook-recitation method) group over the pre-tests to be 19.71 and the net gains of the experimental (workbook method) group to be 19.11 over the same series of achievement tests. Motter concluded that "for the teaching of

<sup>14</sup>Cronin, Margaret, "An Analysis of Workbooks in American History, Junior High School Level," Unpublished Master's Thesis, Boston University, 1948, pp. 78-79.

<sup>15</sup> Motter, George A., "Teacher Assignment Versus Vorkbook Assignment," School Review, vol. 47, January, 1949, p. 47.



factual matter in the social sciences, there is no significant difference between the values of the workbook method and the teacher directed method of notebook work and class discussion and recitation."16

Warren, 17 in comparing the workbook with the pupil notebook method in eighth-grade American history classes, found the former inferior in developing knowledge and understanding but slightly superior in developing attitudes. Her conclusion stated that:

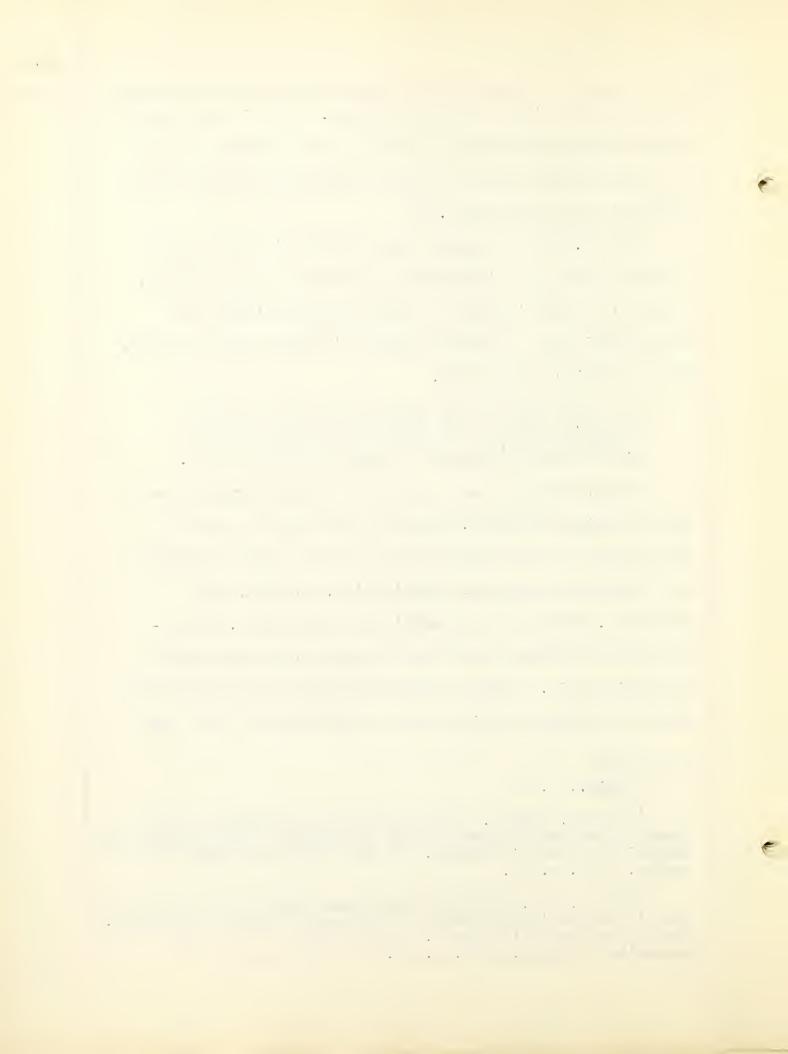
By comparison of mean scores made on final tests of facts by the notebook group and by the workbook group, it is evident that there was no significant difference or gain for either group.

In developing a score card for rating elementary business training workbooks, Moody<sup>18</sup> apportioned a total of 1000 points to four main divisions of the workbook (Format and Mechanical Features, Organization, Content, and Materials, Provision for Individual Differences, and Reviewing and Testing) and listed several objectives under each main topic. Twenty experienced teachers of elementary business training participated in the study and this jury

<sup>16</sup> Ibid., p. 47

<sup>17</sup> Marren, Mary F. "Relative Values in the Use of the Workbook and the Notebook in the Teaching of American History," Unpublished Master's Thesis, Colorada State College of Education, 1937, p. 92.

<sup>18</sup> Moody, Ivy, "The Development and Application of a Score Card in Evaluating Vorkbooks in Elementary Business Training," Unpublished Master's Thesis, Oklahoma Agricultural and Mechanical College, 1939, p. 36.



decided that the weights of the main divisions should be as follows:

Format and Mechanical Features------139 Points Organization, Content and Materials----500 Points Provision for Individual Differences-----179 Points Provision for Reviewing and Testing-----182 Points

The mean raw score for each feature was then computed by multiplying the number judgments, which gave each feature the same numerical rating, and dividing the sum by the number of judgments--twenty.19

Thus the information obtained could be applied in the rating and selection of workbooks in elementary business training.

A study made in 1935 by the Society for Curriculum Study presented evidence that would place sanction upon the use of workbooks. This study was summarized by Goodykoontz as follows:

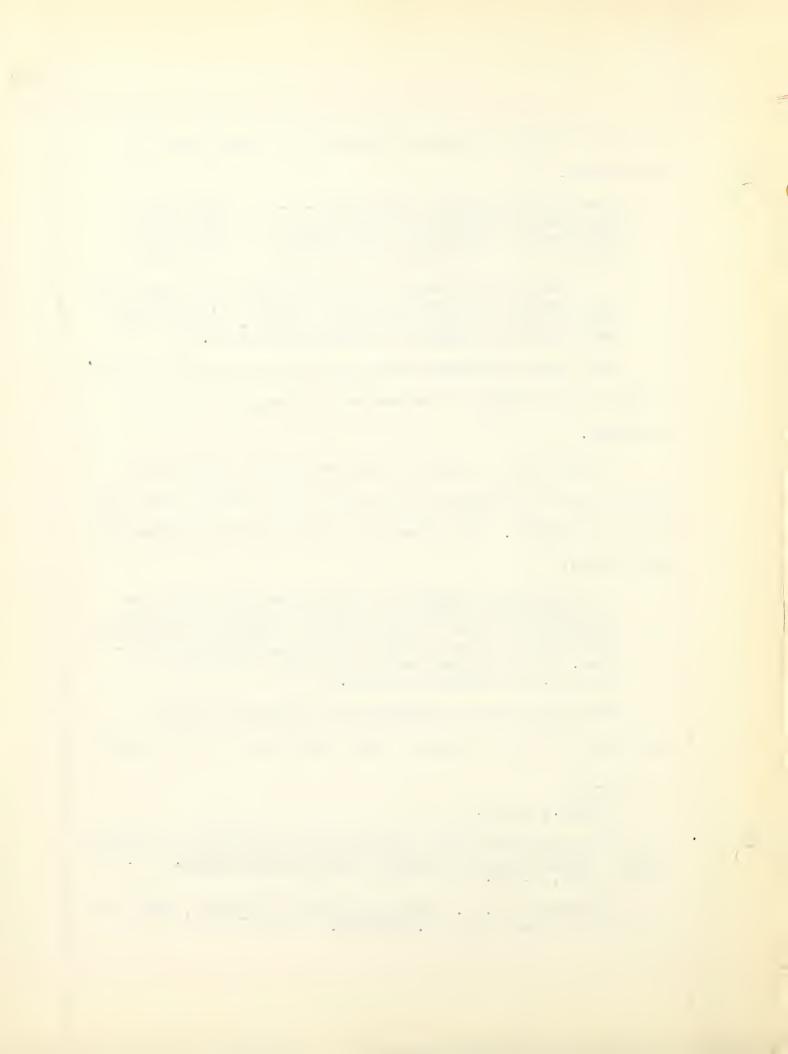
Though the benefits ascribed to the use of the workbooks were usually in terms of higher scores on standardized tests, other benefits enumerated included increase in power of self-direction, helps in retention, skill in fundamental processes, reasoning ability, and problem solving.<sup>20</sup>

Umstattd<sup>21</sup> made an analysis of workbooks in many different fields and found a wide assortment in the physical

<sup>19&</sup>lt;u>Ibid.</u>, p. 36.

<sup>20</sup> Goodykoontz, Bess, "Current Uses and Effects of Norkbooks," Journal of the Society for Curricula Study, vol. 6, April, 1945, p. 31.

<sup>21</sup>Umstattd, J. G., Secondary School Teaching, Ginn and Company, Boston, 1937, pp. 193-195.



characteristics and mechanics of these workbooks. In analyzing 29 workbooks in history he found that only six had objectives, nine had separate directions to teachers, four had diagrams, one had pre-tests, and none had diagnostic tests. In his summary, Umstattd expressed an opinion that not enough challenging problems and projects were included in workbooks.

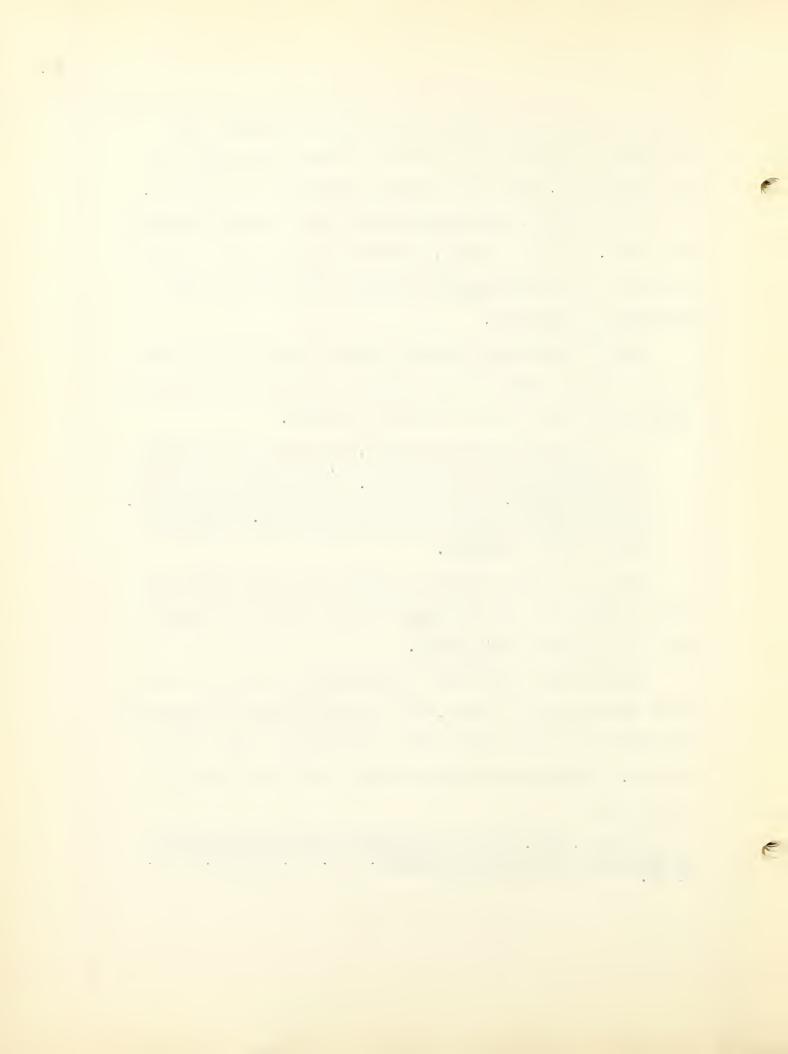
Scott<sup>22</sup> summarized studies made of various workbooks up to 1937 and found 57 such studies dealing with workbooks in many different fields of subject matter.

Of the 57 groups studied, 37 showed differences in favor of the use of workbooks, but only ll of these are statistically significant. Three groups showed no differences, six of them statistically significant, in favor of the use of the textbook alone. For eight of the groups, there was an apparent difference in favor of the workbook.

Results of this survey led Scott to believe that the use of workbooks did not significantly affect the achievement of the groups using them.

Despite the large scale distribution and use of work-books in the schools today, one can readily see by surveying the literature that very little research has been accombished. Glancing over the research that does exist, a

<sup>22</sup>Scott, Ira, "Is the Torkbook Really Worth Thile?"
The American School Board Journal, vol. 95, August, 1947,
p. 27.



reader finds difficulty in obtaining a cogent conclusion due to the fact that one may obtain just exactly the type of conclusion to suit his purpose or substantiate his opinion. The writer believes that a very valuable type of research is that which analyzes the type of learning experiences that workbooks provide. This survey is directed with this aim in mind.



## CHAPTER III

## REVIE OF FELATED LITERATURE

A wealth of subjective material concerning the values, disadvantages, desirable features, and advantages of the workbook has been found in educational publications over the past 25 years. The pages following give a sampling of the pros and cons as projected by leaders in the field.

Among the first to attack workbooks was Riggs, who, in discussing the place of workbooks, states:

In our eagerness to be modern and forward, a should not lose sight of the fact that schools are responsible for training boys and girls for a place in life. . . we should be mindful that re do not send them from school as expert blank fillers.

One can give serious thought to the fact that perhaps teachers are making blank fillers out of stu ents. It is true that good tools are an aid to education but some never learn how to use the tools properly no matter how good they may be. It is very easy to follow the path of least resistence. Buch of the "busy work" that formerly found a useful place in primary education has been condemned as of little educational value.

Riggs, H. H., "Are Ve Making Blank Fillers Out of Students?" School Executive, vol. 51, March, 1942, p. 329.



In support of Rigg's statement, Carrothers<sup>2</sup> made the following comments:

If we are concerned primarily with getting young people to be clock punchers, to be routine factory workers running drill presses and other automatic machinery, or merely to be good cogs in our industrial machine, then the filling of blanks is not to be so greatly deplored. On the other hand, if a democracy is dependent for its success on the ability of citizens in general to do some thinking for themselves, then schools should be especially concerned with what workbooks are doing to children in their formative years. The situation is in need of thorough investigation.

We hear the term workbook in every grade of every school these days and the first part of the word is about the only place where 'work' is discovered in some classes. Possibly the name workbook is chosen for the same reason that the six-footer in the small village is called 'Shorty'-because he is not.

The publisher of the first workbooks 3 has said that:

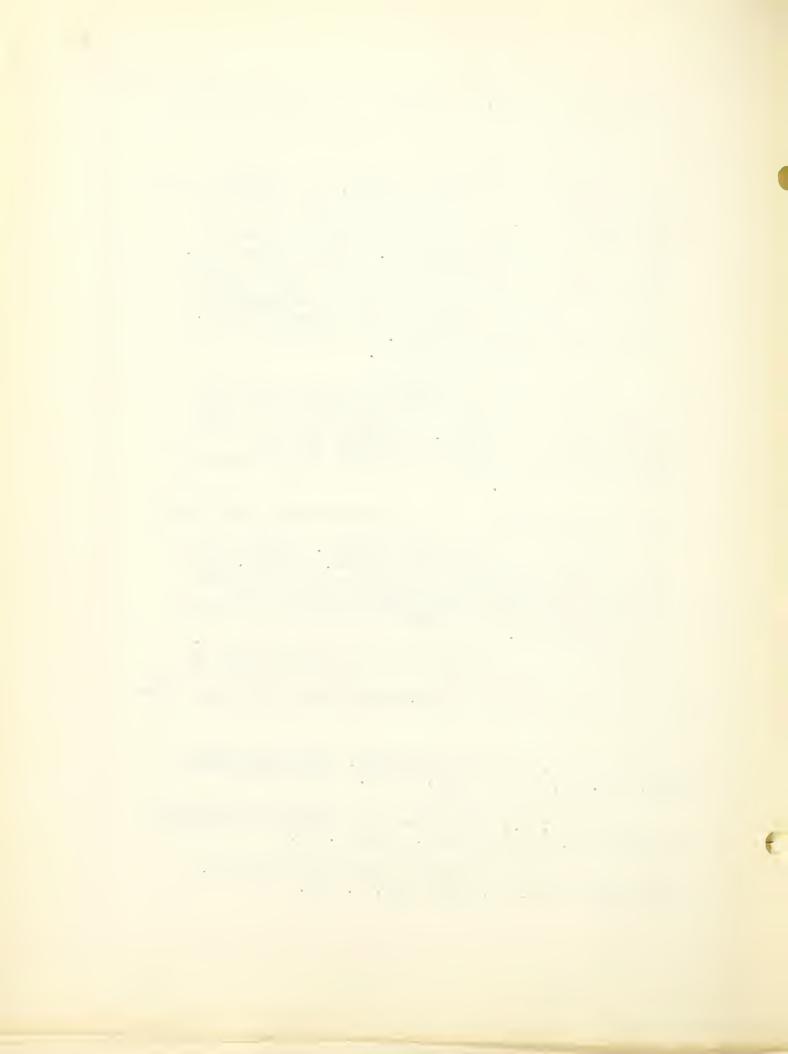
The workbook is in its infancy. There are many possibilities for improvement, however, since it has been recognized by teachers and publishers as needed equipment for classroom instruction; the teachers and the publishers should work toward its improvement.

In discussing the advantages and disadvantages of using workbooks in bookkeeping, Lebeda4 has said that while

<sup>2</sup>Carrothers, George, "Norkbooks," The Educational Digest, vol. 10, April, 1945, p. 32.

Johnson, V. P., "Then Came the Workbook," Journal of Education, vol. 131, February, 1948, p. 64.

<sup>4</sup>Lebeda, Agnes, "Workbooks Versus No Workbooks," Balance Sheet, vol. 25, May, 1944, P. 461.



the advantages appear to be outweighed by the disadvantages, the disadvantages can be overcome. Her philosophy is that "workbooks are necessary in teaching bookkeeping."

Jacks 6 feels that the following arguments can be raised by the proponents of the use of workbooks.

- 1. It reduces the labor of the teacher and pubil.
- 2. It develops initiative and independence of the pupil.
- 3. Material is arranged in a more definite sequence than the plans of most teachers.
- 4. It puts proper stress on the important parts of the text.
- 5. It tests while it teaches.
- 6. It adjusts the instruction to individual differences.
- 7. It is less expensive.

Tyron7 expressed dissatisfaction over the use of work-books in the social sciences as follows:

It may be truthfully said of most of the present workbooks in the social sciences that they reduce learning to a matter of doses; make children mechanical memorizers; reduce the teacher initiative, originality, and creativeness; contain too many trivial and unrelated facts; are overloaded with poorly graded exercises that are not cumulative in difficulty, it seems high

<sup>5</sup>Ibid., p. 461. .

Jacks, Robert, "Status of the Workbook In Classroom Instruction," Educational Method, vol. 18, December, 1938, p. 106.

<sup>7</sup>Tyron, Rolla M., "The Development and Appraisal of Yorkbooks in the Social Sciences," School Review, vol. 46, January, 1938, p. 30.

time to bid good-bye to a type of teaching aid which is inherently incapable of being brought into life with recognized good teaching in the social sciences.

Tyron9 feels that when the teachers assume the responsibility for making the guide sheets, the situation will be much more effectively handled than possible under the use of the workbook.

Kerr's 10 reactions to workbooks were as follows:

Much of the stigma attached to workbooks would be obviated if their use were restricted to certain subjects. Any technique grows uninteresting with constant use and repetition. If workbooks are used in only one or two subjects, the children will enjoy them more, and the teacher, consequently, will find them of more interest value. The subjects in which workbooks should be used will very with the individual group and from grade to grade.

The advantages of the workbook as observed by Gates lare:

- 1. The workbook saves the pubil time.
- 2. The workbook makes instruction adjustable to individual differences.
- 3. Programs which incorporate self-manageable activities in a workbook with group activities and with the usual kind of textbook reading and study prove to be more satisfying to pupils than anyone of these procedures alone.

<sup>8</sup> Ibid., p. 30.

<sup>9&</sup>lt;u>Ibid.</u>, p. 30.

<sup>10</sup>Kerr, Margaret, "Teaching with Workbooks," The Elementary School Journal, vol.48, December, 1947, p. 221.

ll Gates, Arthur, "The Norkbook in Practice," Nebraska Educational Journal, vol. 28, March 1948, pp. 70-71.

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- 4. The workbook program, properly organized, leads to better integration and application of the information and skills acquired.
- 5. The workbook program develops skill in planning and executing activities and projects in managing one's own learning, in diagnosing and seeking remedies for one's own difficulties, and in acquiring other self-sustaining techniques.
- 6. The workbook program reduces a number of failures.
- 7. The workbook program is less expensive. 12

Miller's 13 suggestion is that the use of workbooks should be limited to the time "when they seem to be the best means of doing what we want to do." He feels that "if the books are worth the children's time, they should be worth checking by the teacher."

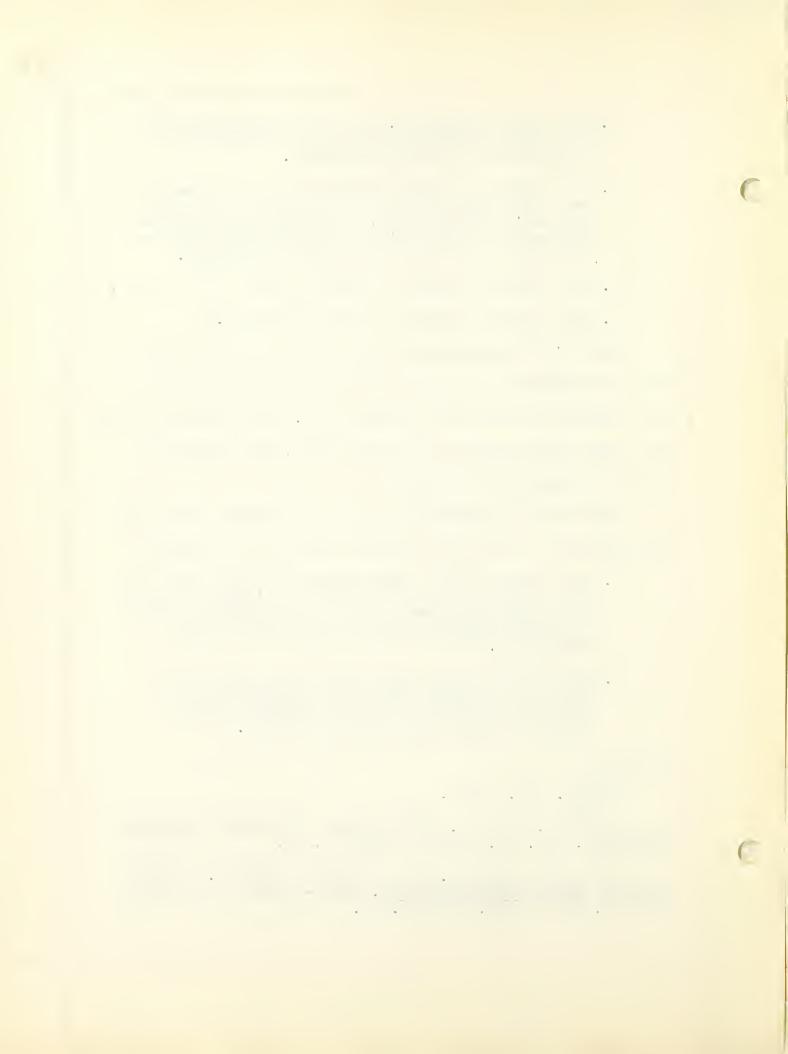
Crabbe and Salsgiver offer the following criteria for judging the value of workbooks in general business:

- 1. They should save a great amount of time both for the pupils and the teacher by providing the business forms and most of the writing space needed for the learning activities included in the assignment.
- 2. They should enable the pupils to attain the objectives of the course in a shorter space of time by providing the actual business forms needed to make their study realistic.

<sup>12&</sup>lt;u>Ibid.</u>, pp. 70-71.

<sup>13</sup>Miller, Edith F., "What About Yorkbooks?," American Childhood, vol. 32, December 1946, p. 63.

Crabbe, Ernest H., and Salsgiver, Paul L., General Business Methods and Materials, South-Western Publishing Company, Cincinnati, 1947, p. 25.



- 3. They should add to the in rest pupils take in their work.
- 4. They should encourage purils to develop specific answers for many questions about which they might otherwise think in rather vague or general terms.
- 5. They should economize in the use of school supplies by providing a complete set of laboratory materials needed by pupils for effective study of the connects

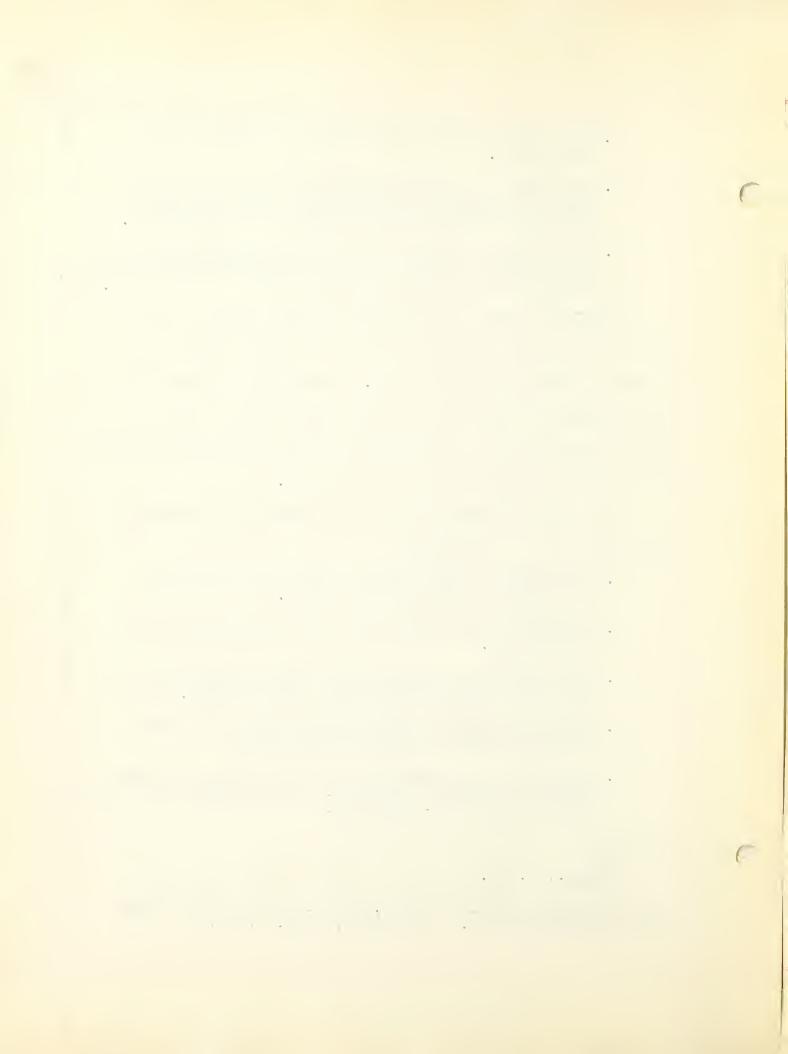
McGuire 16 feels that workbooks should have a place in modern education because "they have a unique contribution to make to the learning process." She states further that any advantages gained from the use of workbooks "will be in direct proportion to the judgment displayed by administrators and teachers in selecting and using them."

The following criteria has been adopted by McGuire in the evaluation of workbooks:

- 1. The workbook should follow the well-established objectives of the subject matter.
- 2. It should be of interest to the pupils for whom it is intended.
- 3. It should be so planned that the accomplishment of the exercises is satisfying to the publis.
- 4. It should provide precisely the types of learning units needed by the class in question.
- 5. It should be so organized as to require a minimum amount of teacher direction, and to permit to a large extent pupil self-direction.

<sup>15</sup> Ibid., p. 25.

<sup>16</sup> McGuire, Edna, "Teacher, Pupil, and Norkbook," The School Executive, vol. 54, October, 1934, p. 47.



- 6. It should be well organized mechanically.
- 7. It should be economically priced. 17

The characteristics of a good workbook defined by 18
Vreeland are:

- 1. The good workbook, other things being equal, tends to foster helpfully an intilate personal contact between pupil and teacher.
- 2. The good workbook utilizes as many as possible of the available materials and opportunities for experience.
- 3. The good workbook utilizes completely the findings of the scientific study of the learning process.
- 4. The good workbook provides adequately for maximum growth on the part of all learners, no matter what their types or general levels of maturity.
- 5. The good workbook stimulates in wholesome ways the assumptions of responsibility by the pupil for all aspects of his work.
- 6. The good workbook provides effective training in the techniques of self-diagnosis.

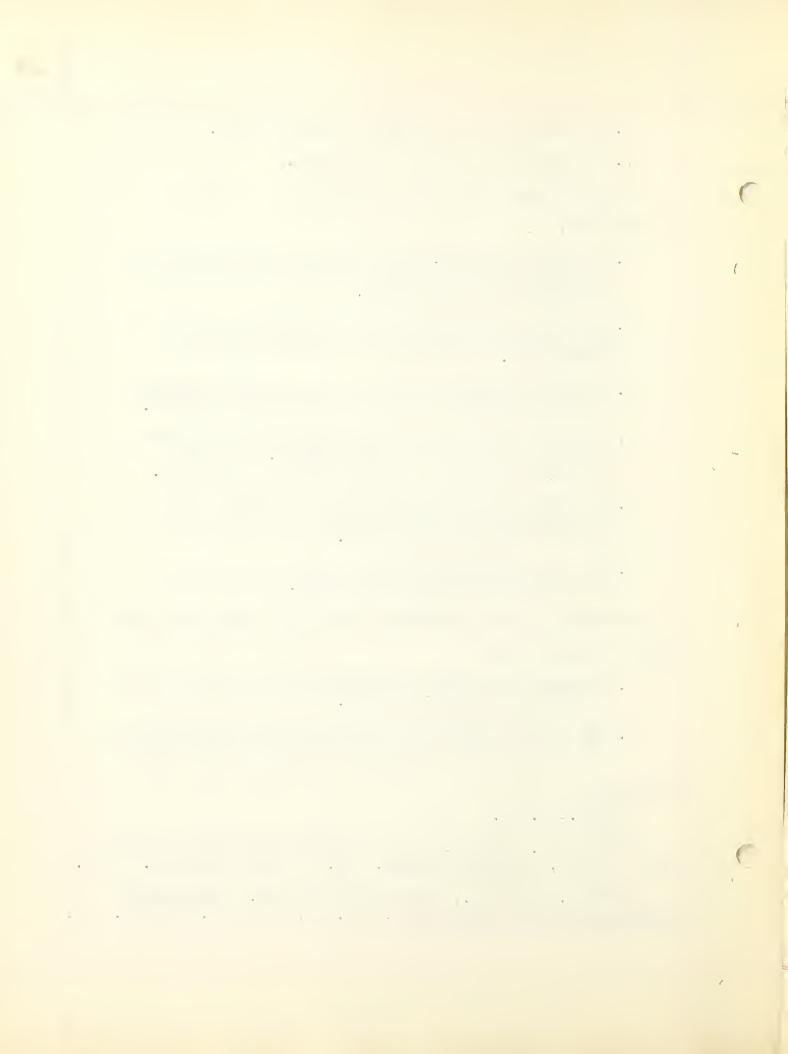
Criteria for the evaluation of reading workbooks established by Betts 19 is:

- 1. Meaning rather than the mechanics of reading should receive major consideration.
- 2. Activities should be emphasized which facilitate the normal development of goal-seeking behavior rather

<sup>17</sup>Ibid., p. 47.

<sup>18</sup> Vreeland, Wendell, "A Good Vorkbook from the Teacher's Point of View," <u>Nations Schools</u>, vol. 18, July, 1946, p. 36-37.

<sup>19</sup>Betts, Emmett A., "Workbook Situation," Educational Administration and Supervision, vol. 21, November, 1941, p. 571.



than drills and exercises to insure a given number of repetitions.

- 3. A vide and interesting variety of worth this activities should be provided in order to recognize the various facts of the reading situations and to make possible adaption to individual needs and interests.
- 4. The workbook material should be attractive.
- 5. The materials should be of the informational type.
- 6. The vocabulary of the directions should be assayed for possible comprehension difficulties.
- 7. Responses should be characterized by rich and varied association and by inferential type thinking rather than by an aided or unaided recall of sheer facts.<sup>20</sup>

Wesley<sup>21</sup> thinks that the workbooks should be regarded as "suggestions" with the bulk of learning activities originating from pupil-teacher contributions. He feels that workbooks will probably continue to be successful until "teachers are prolific in ideas and resourceful in methods."

Van Liew<sup>22</sup> reminds us that the prime teaching function—that of guiding pupils in study, in learning, and work—is often buried under heavy curricula demands, crowded schedules

<sup>20&</sup>lt;sub>Ibid.</sub>, p. 571.

Wesley, Edgar B., "Workbooks in the Social Studies," Historical Outlook, vol. 22, April, 1931, p. 153.

<sup>22</sup> Van Liew, C. C., "Can the Torkbook Be Justified?," The School Executive, vol. 53, October, 1933, pp. 38-39.

•  and classrooms and pedagogical sluggishness. Here, he feels, "is the opportunity of the workbook." Workbooks must fulfill three requirements to receive his approval:

- 1. The specialist's mastery and interpretation of subject matter.
- 2. The skill and judgment of the experienced pedagogy.
- 3. The clear definite diction of a writer of good English. 23

Wacek's 24 observations have led him to conclude that there are both good and bad workbooks. He classifies the bad ones as being mere "busy-work devices" and the good ones as being of "inestimable value both to teachers and pupils." Wacek feels that workbooks can supplement the class instruction and "clarify dozens of different things which might forever confuse the pupil without their help."

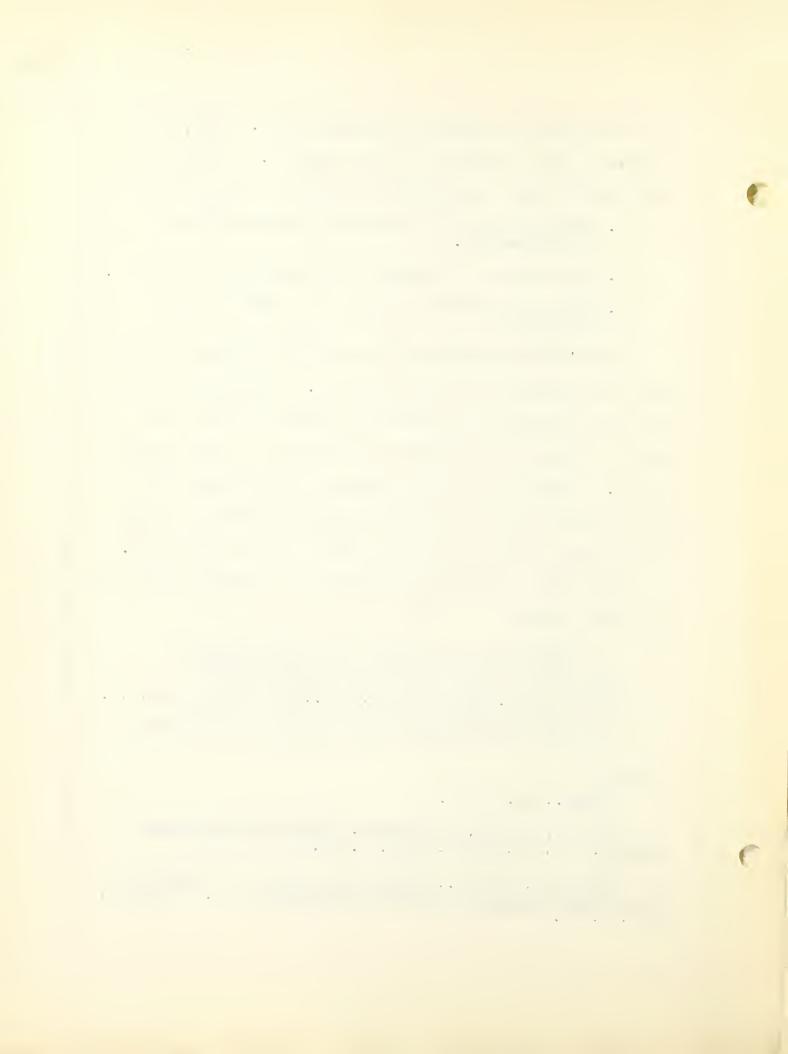
Andreen<sup>25</sup> summarizes his opinion of workbooks with the following comment:

Commercial workbooks which generally are organized to furnish enough teaching material for a year or half year are taking place of lesson plans, study guides, etc., in many schools. . . The chief objection to them is that with them available many teachers stop planning and thinking

<sup>23&</sup>lt;u>Ibid.</u>, pp. 38-39.

<sup>24</sup>Wacek, Helene, "Norkbooks," Nebraska Educational Journal, vol. 24, March, 1944, p. 84.

<sup>25</sup> Andreen, Earl P., "What Do We Think of Workbooks?," California Journal of Elementary Education, vol. 6, August, 1947, p. 26.



about teaching and hence quit growing. The books are valuable when properly used and help teachers to do systematic teaching while they are organizing materials of their own. 20

Melcom<sup>27</sup> advocates a personalized workbook which will become a cumulative record of all work and serve on file as a unit plan for future references. He feels that a work-book "only becomes personal when the student has chosen its particular contents."

In rendering his opposition to the use of workbooks, Osburne 28 says:

The workbooks show no recognition of individual differences. There is no way for the teacher to know whether the books are to be used for remedial treatment for a slow pupil, or whether they are for use as additional work for bright pupils. Finally, there is no way of relating the workbook to the textbook which happens to be in use. The assignment for today may refer to stocks and bonds, and the pupil may be having trouble. The need of the hour is for further treatment of stocks and bonds. Possibly an adequate treatment of the sort needed may be given somewhere in the workbooks, but goodness only knows where it is.

<sup>26&</sup>lt;sub>Ibid.</sub>, p. 26.

<sup>27</sup> Melcom, H. G., "Personalized Workbooks," Sierra Educational News, vol. 36, October, 1940, p. 15.

<sup>280</sup>sburne, W. J., "Educational Medicine," Educational Research, vol. 10, January 7, 1931, p. 20.

 Vreeland leels that:

In the last analysis a workbook can be no more than a means to an end. Its function is to facilitate the teaching and learning processes as they must be carried on in the modern school. It follows that the workbook may be either an utterly valueless instrument or an indispensible tool, depending upon the nicety with which it is adjusted to the instructional situation in which it is used. Final appraisal of the workbook, therefore, ought to be based upon its effectiveness in actual use in the classroom.

The writer has attempted to show the controversy that exists concerning the merits of the workbook. One can readily see in summarizing the literature concerning workbooks that regardless of what may be one's personal opinion, it may be substantiated by the opinion of some one or more writers.

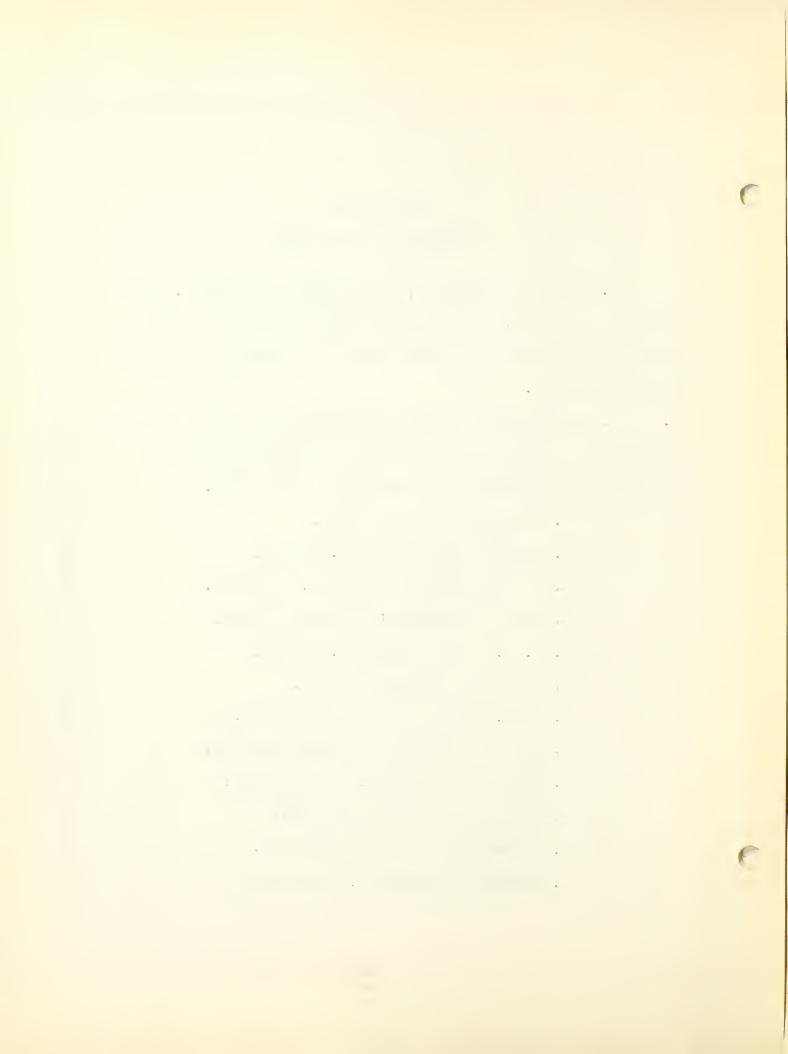
<sup>29</sup> Vreeland, op. cit., p. 35.

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## CHAPTER IV

## PROCEDURE OF THE STUDY

- 1. Related literature, consisting of articles, text-books, pambhlets, and research studies relating to the workbook situation was investigated to obtain a background for this study.
- 2. In order to obtain a complete list of all economic geography workbooks, the following publishing companies were either written to or visited by the writer.
  - a. Allyn and Bacon, Boston.
  - b. American Book Company, Boston.
  - c. Appleton-Century Company, New York. .
  - d. Charles Scribner's & Sons, Boston.
  - e. D. C. Heath & Company, Boston.
  - f. Ginn and Company, Boston.
  - g. Holt, Henry & Company, New York.
  - h. Houghton Mifflin Company, New York.
  - i. Lippincott Company, Philadelphia.
  - j. MacMillan Company, New York.
  - k. McGraw-Hill Company, New York.
  - 1. McKnight & McKnight, Bloomington.



- m. Prentice-Hall, New York.
- n. Rand McNally Company, Chicago.
- o. Scott, Foresman & Company, New York.
- p. Silver Burdett Commany, Boston.
- q. South-Vestern Company, Cincinnati.
- r. Vorld Book Company, Boston.
- 3. City and state courses of study were consulted to determine the most widely used economic geography workbooks in the high school. Using this procedure, the following eight workbooks were selected for this study:
  - a. Colby, Charles C., and Foster, Alice,

    <u>Investigations in Industries and Resources</u>,

    Ginn and Company, Boston, 1941.
  - b. Durand, Loyal, and Thitaker, Joe Russell,

    Norkbook for the Norking Norld, American
    Book Company, Boston, 1938.
  - c. Gibson, J. Sullivan, and Ridgley, Douglas C.,

    <u>Studies in Economic Geography</u>, McKnight and

    McKnight, Publishers, Bloomington, 1935.
  - d. Martin, Maude C., Activities Notebook,
    D. C. Heath and Company, Boston, 1940.
  - e. Miller, Lloyd A., and Hall, Agnes, Global

    Geography for Figh Schools, Allyn and Bacon,

    Boston, 1948.

. 7 . . • . .

- f. Overton, Bruce, <u>Tork-Test Book</u>, The MacMillan Company, New York, 1934.
- g. Ridgley, Douglas C., and Ekblaw, Sydney, E.,

  Problems in Economic Grography, McGraw-Hill

  Company, New York, 1938.
- h. Staples, Z. Carleton, and York, G. Morell,

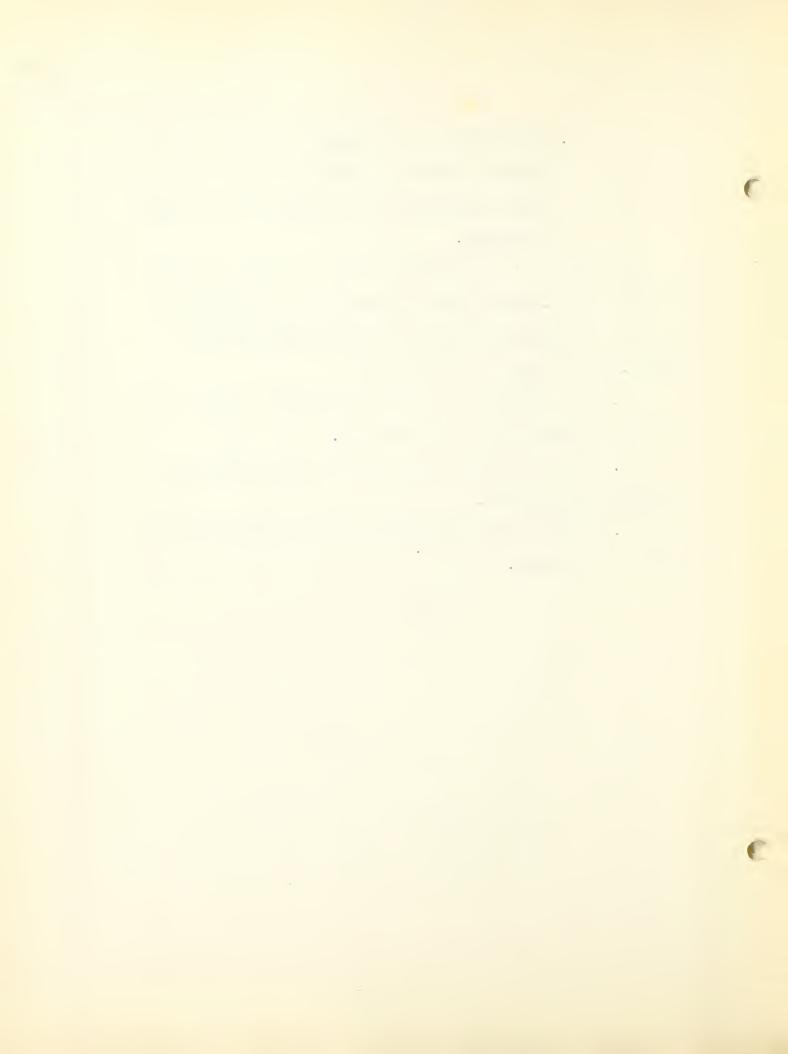
  Norkbook for Use with Economic Geography,

  South-Nestern Publishing Company, New York,

  1940.
- 4. A preliminary analysis of the foregoing workbooks was conducted to determine the most efficient, objective manner by which the following information could be obtained:
  - a. Contribution of the specific data for the evaluation of the content of workbooks in economic geography.
  - b. Determination of the extent workbooks aid pupils to study more economically and effectively.
  - c. Comparisons of the kinds of activities found in these workbooks.
  - d. Determination of the number and types of teaching aids which these workbooks provide such as graphs, illustrations, and photographs.

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- e. Provision of data in graphic form which will enable teachers to easily interpret the physical construction of workbooks in economic geography.
- 5. After the orelininary analysis of the workbooks in this study, 19 component elements of the activities in the workbooks were defined as the basis for this study. (See Pages 3, 4, 5, and 6.)
- 6. Each workbook was analyzed individually and tabulations of the activities were made.
- 7. The data obtained were set up into tables and graphs, and analyzed.
- 8. A summary and conclusions vere formulated based upon the findings.



#### C APTER V

#### RESULTS OF THE SURVEY

The data used in this study are based upon the results of a survey of the activities provided for high school students in eight vorkbooks in economic geography.

The following 16 pages are devoted to presentation of descriptive pictures of each workbook that was analyzed in this study. The tables accompanying the workbook descriptions show the frequency distribution of each component element found of the eight workbooks that were analyzed.



Jorkbook #1 -- Investigations in Industries and Respurces, by Charles C. Colby and Alice Foster, is a specific workbook based on the textbook Economic Geography, written by the same authors. This workbook is composed of 11 units which are arranged to correlate with chapters in the textbook. Each unit is introduced with the objectives and reasons for studying that particular unit. Summary exercises are presented in the form of study or completion questions. This is the only workbook in the study that contains multiple-response items, and one of two that has diagrams and diagram exercises. Of the 19 component elements in this study, all but three are represented in this workbook.

From Table 1, we see that completion items represent
45 per cent of the total while the multiple-choice items are
second highest in frequency with a total of 36 per cent; that
the next two items in order of frequency are matching and
map exercises; that although listing exercises are common in
most economic geography workbooks, they are not found in
this workbook; that chart exercises are considered essential
elements by the authors of this workbook.



#### TABLE 1

# NUMBER OF UNITS SCORED FOR EACH COMPONENT ELEMENT IN

### INVESTIGATIONS IN INDUSTRIES AND RESOURCES

Component Elements	Number of Units Scored
General Activities	• • • 3
Charts Chart Exercises Class Reports Completion Diagrams Diagram Exercises Graphs Graph Exercises Map Outlines Map Exercises Matching Multiple Choice Multiple Response Photographs Study	5 692 17 14 39 38 77 56 58 21

Morkbook #2 -- Norkbook for the Norking Norld, by

Loyal Durand and Joe Russell Nhitaker is a specific type

of Norkbook primarily prepared to accompany the textbook,

The Norking Norld, tri-authored by Durand, Nhitaker, and

John Nhitbeck. This workbook is composed of ten units

which are divided into the chapter headings of the textbook.

Each unit is introduced by presentation of general objectives,

telling the students why they are about to undertake a certain

study. The authors do not present summaries but ask the

student to construct individual summaries or conclusions.

A large amount of space is allotted for student response and

pages are perforated for easy removal.

Table 2 shows that of the 11 elements represented, 67 per cent consist of study questions, 11 per cent of completion items, and nine per cent of listing exercises; that matching, multiple choice, and true-false items are not represented; that only a small number of visual aids are presented; that only two charts are found.



#### TABLE II

# NUMBER OF UNITS SCORED FOR EACH COMPONENT ELEMENT IN

## WORKBOOK FOR THE WORKING WORLD

Component Elements					of Units ored
Freek Outli Outs	ties . te nand Dr ine Dev ide Rea ure Stu	awing elopme	nt.	]	. 12
Charts			• • • • • • • • • • • • • • • • • • •		. 10 . 111 . 59 . 98 . 16

Jorkbook #3 -- Studies in Economic Geography, by

J. Sullivan Gibson and Douglas C. Ridgley, is not written
to accompany any particular text but is arranged so that
it may serve as a guide for use with any of the leading
economic geography textbooks on a high school level. This
workbook is divided into sixteen units which are further
sub-divided into topics. Each unit presents references
to high school textbooks, objectives for the study unit,
and one outline map which provides the basis for the
introductory activities. The authors often terminate a
unit with a summarization intended to clarify and
correlate objectives.

From table 3 we see that ten of the 19 elements are represented in this workbook; that study questions constitute 38 per cent of the total activities followed by completion items, 22 per cent, and listing exercises, 17 per cent; that over 200 visual aids are provided; that all activities may be considered as standard in that no general activities are found in this workbook.



#### TABLE III

# NUMBER OF UNITS SCORED FOR LACH

#### COMPONENT ELEMENT IN

# STUDIES IN ECONOMIC GEOGRAPHY

Component Elements	Number of Units Scored
Charts	
Chart Exercises	
Completion	170
Definitions	
Graphs	122
Graph Exercises	124
Listing	135
Map Outlines	
Map Exercises	74
Study	295



Norkbook #4 -- Activities Notebook, by Table C. Dantin, is a specific workbook prepared to guide the stocent in or mixing and acquiring the important facts in the textbook. The United States at York, written by Martin in collaboration with Clyde E. Cooper. This workbook is divided into six units, each unit being composed of two or three problems. Each problem develops from an introductory statement which serves as a study guide. Space is provided for everything except the drawings, the graphs, and the outlines for oral reports. About one sixth of the guide consists of space allotted to written work, and in many cases the student is asked to check his answer rather than write it out. The author feels that the objectives should all be graned to interest in present-day problems.

Table 4 shows that the chief emphasis in this guide has been placed on study questions; that listing and completion items are second and third in frequency occurence; that charts, diagrams, and grophs are not found in this workbook; that true-false items are represented in a small amount.



#### TABLE IV

## NUMBER OF UNITS SCORED FOR EACH

#### COMPONENT ELEMENT IN

#### ACTIVITIES NOTEBOOK

Component Elements	Number of Units Scored
General Activities	2
Chart Exercises	23 

ngres Hall is intended for use with Van Clefft Global

Geography for High Schools. Prosenting 17 units which

are sub-divided into topics to coincide with textbook

chaster headings, the authors introduce each unit with a

general activity devised to arouse student interest.

Terminating activities in each unit consist of applied

geography questions - generally of a mathematical nature.

Of the 19 component elements defined in this study,

Geography Jorkbook utilizes nine.

Table 5 shows that 83 per cent of the total activities in this torkbook are study questions; that the number and variety of general activities exceed those of any other workbook in this study; that publishare required to develop many individual graphs; that has activities are second in frequency of occurence; that common questioning items are not represented.



#### TABLE V

# NUMBER OF UNITS SCORED FOR EACH COMPONENT EL MINT IN

#### GLOBAL GEOGRAPHY FOR HIGH SCHOOLS

Component Elements	Number of Units Scored
General Activities  Debates  Exhibits.  Experiments  Field Trips  Freehand Drawing.  Map Construction.  Mathematical Problems  Model Construction.  Picture Collection.  Planning Trips.  Planting Seeds.  Poster Construction  Sample Collection.	
Class Reports	

been ritten to accompany The Nations at Nork by the same author. This orkbook is composed of 42 problems, nowe of which have introductory or terminating activities. The exercises are arranged in such a way that no admittantly activities are is needed in following out the assignments. About the thirds of the Norkbook's space is allowed to ritten mode. There are numerous opportunities to measure the implede of the puril for any answering techniques are employed.

The greatest number of completion items found in this forkbook survey appear in Nork-Test Book.

items as there are opportunities for listing; that although there are 533 study questions this device ranks third in frequency; that a small number and variety of visual sids are presented; that the general activities consist almost wholly of student creativeness; that the total of man and graph exercises are less numerous than class reports.



#### TABLL VI

#### NUIBER OF UNITS SCORLD FOR LACT

#### COPPOSENT ELEVERT IN

### WORK-TEST BOOK

Commonent	Number of Units Scored
General Activities	1
Charts Chart Exercises Class Reports Completion Definitions Graphs Graphs Graph Exercises Listing Map Outlines Map Exercises Matching Multiple Choice Study True-False	10 30 1362 141 7 9 575 7 7 7

.

· ^ 9

Northous "7 -- Douglas Fingle is and Sydne, I'll is robbank in Economic Geography is a specific type of workbook intended primarily for use with Influence of Geography on Cur aconomic Life by the same authors. The workbook is composed so that it as also be used as a study guide with any similar textbook in aconomic geography. Consisting of 42 lessons sub-divided into daily units, maps and graphs form the integral basis of this workbook. The authors introduce each lesson with a paragraph surmarizing the field of study, attempting to gain student interest. Class reports and optional activities provide the terminating exercises. About one-third of the workbook is allotted to space for student response.

Table 7 shows that 15 of the 19 component elements are represented in this workbook; that completion items are almost five times greater than study questions; that a large number of visual aids are found; that many class reports are presented for student development; that man and graph exercises occur in abundance.



#### TABLL VII

# NUMBER OF UNITS SCORED FOR LACH

#### COMPONENT - LITTIN

### TRODL 13 IN ECONOTIC FRUGIAPHY

Component Elements	Number of Units Scored
General Activities  Article Collections .  Exhibit Planning  Field Trips  Map Construction  Hathematical Problems  Measuring Sun Shadows  Outline Construction .  Picture Collection .  Planning Trips  Product Collection .	2
Charts Chart Activities Class Reports Completion Items Definitions Diagrams Diagram Exercises Graphs Graph Exercises Listing Map Outlines Map Exercises Study Question Items	50 909 89 35 17 17 10 10 103

Jorkbon #3 -- orkbook for He with Economic Conjuncy
by Z. Carleton Stoples and G. Torell York is interest for use
with Leonomic Geography, a textbook written by the nations
of the orkbook. Fenty-five units are resemble in correlation with textbook chapter organization. There are no
introductory or culminating activities. Pales are offered for easy removal and an roximately one turble of the orthodors
shace is allotted to student response.

Table 8 shors commented it a new over five times when prominent than sultiple-choice items which reply a comment in frequency occurence; that eight of the 19 comment elements are not represented in this problem; that only 42 at questions have found in this portbook; that only there general activities are found; that we exercises once the and one-half times here than grain exercises.



## TABLE VIII

## NUMBER OF UNITS SCORED FOR LACH

COMPONENT THE TWY IN

## WORKBOOK FOR USE WITH ECONOMIC GEOGRAPHY

Component Elements	Number of Units Scored
General Activities Freehand Drawing.	
Charts	2
Study	

 Tigure 1 and Table 9 reserts well late start of the multiple of units scored for each community element from ithin the right perhapsion. Table 9 flows that we multiple of the total activities and income to complete items, flightly one than one flowth of the body and involves and interest to some controls, listing and interest to complete the formation of the body, and the majority of the total activities seemed. There are 391 as decreas, 278

Figure 2 so stint all of the perbooks, ith an exce tion of III, offer general activities. Morifocks IV, V,
and VII present the greatest number of opportunities in this
to 1. The number of general activities has a mage of z ro
to 1.6, and the swampe number of orrebook is 16.

Figure 3 sons that six of the sight portracts contain charts that range in number from too to 23. Arthur I has 23 certs the for book II has to charts.

Figure 4 records the number of chart exercises and reveals that all but Northbook V offer this type of energie. The average number of chart exercises or morthbold is 1, and the range extends from hero to 5).

lyzed provide topics for class penorts. Torkbooks and VIII do not offer opportunities for this type of exercise.

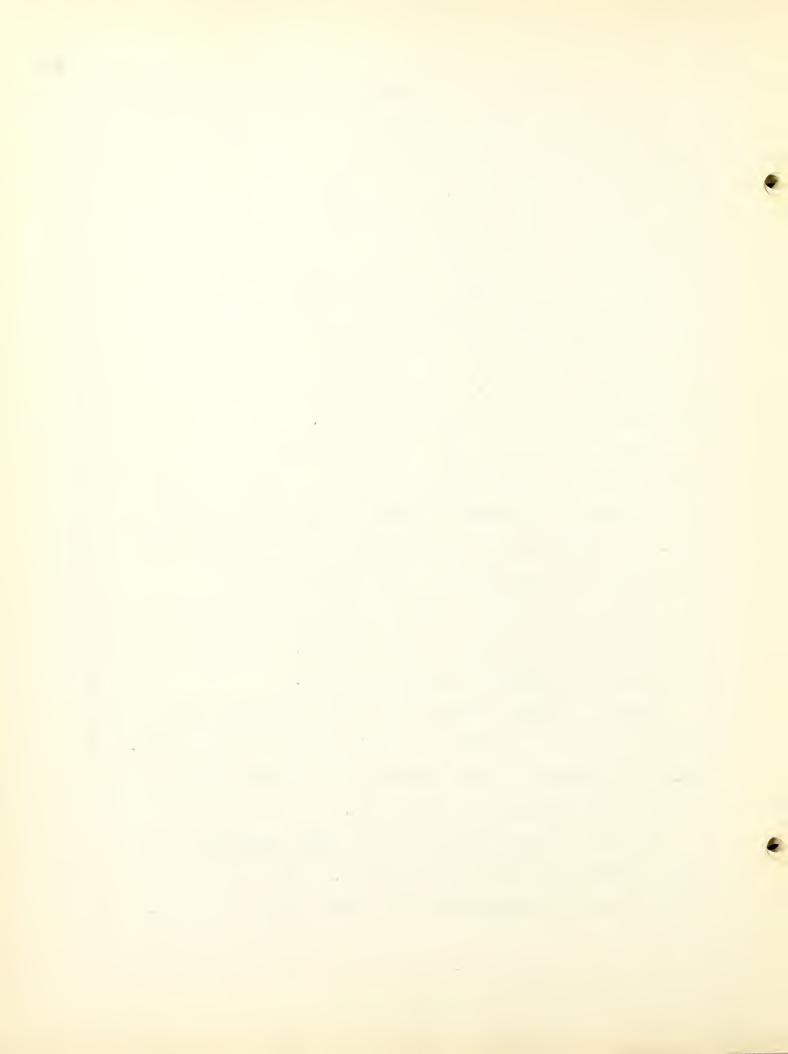
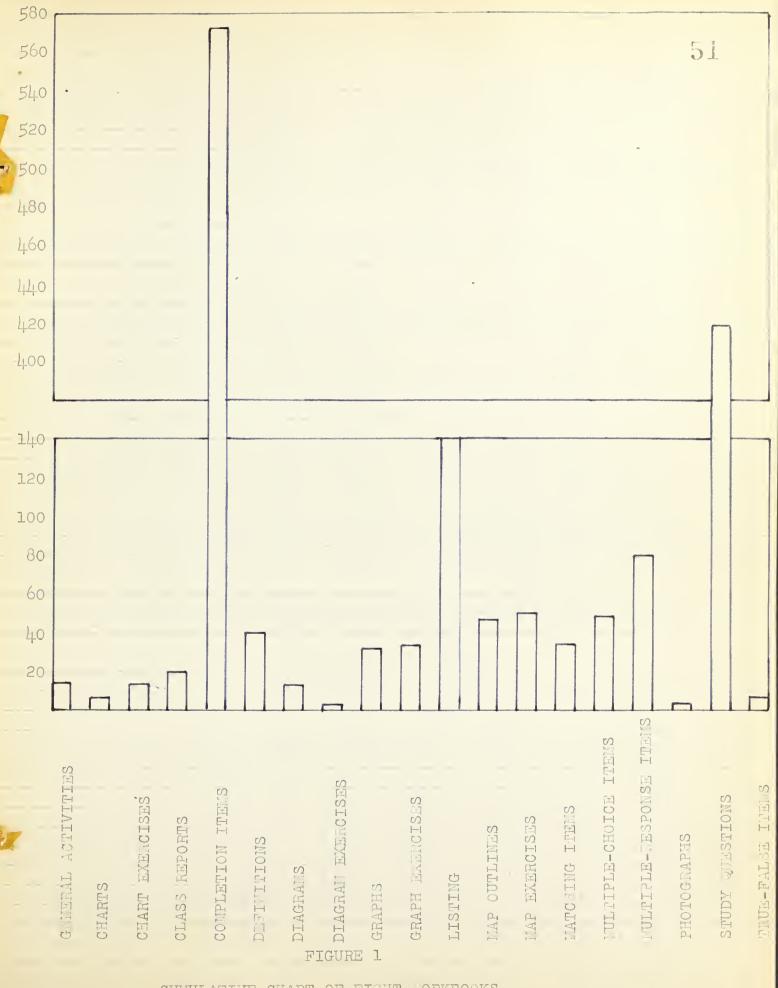


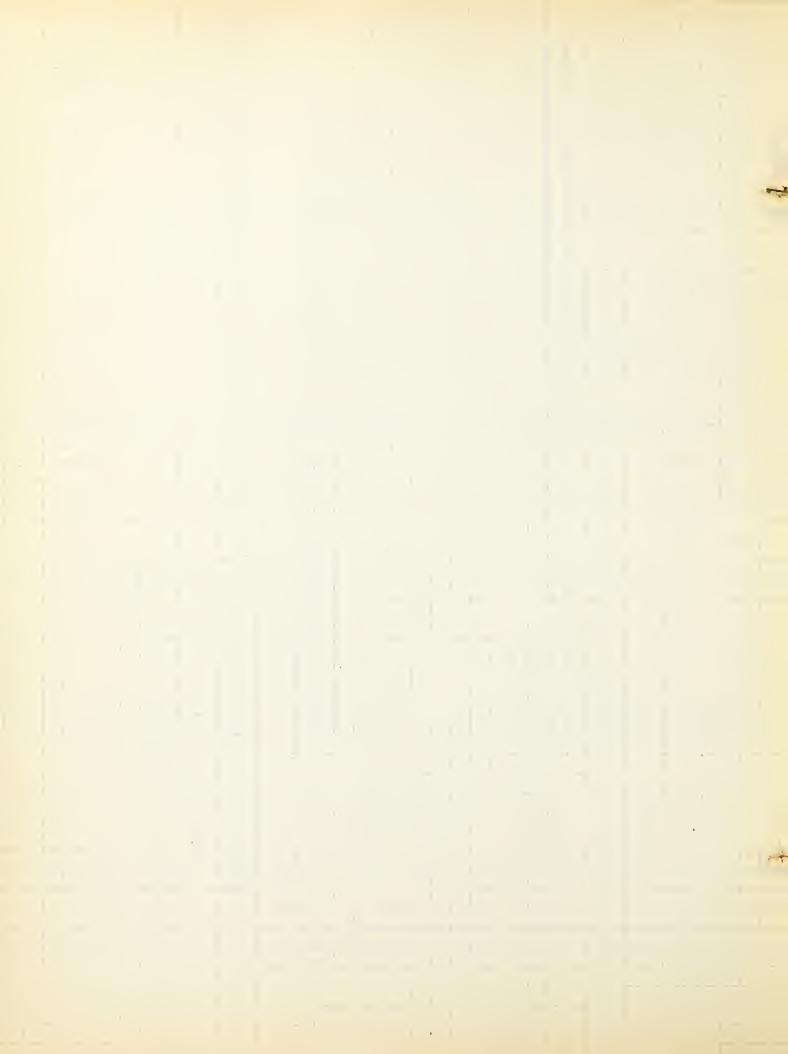
TABLE 9

COMPARATIVE PABLE OF THE COMPONENT ELEMENTS IN EIGHT JORKBOOKS

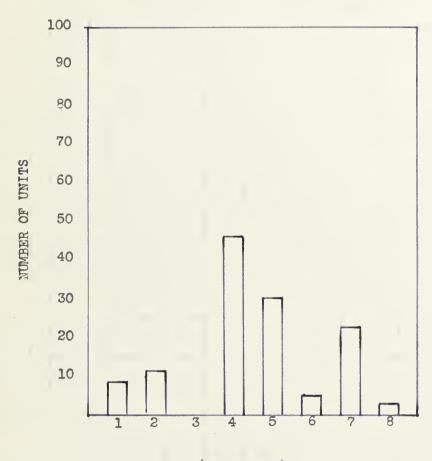
(COMPON_NT	(./orkbooks)									
ELEMENTS)	I	II	III	IV	V	VI	VII	VIII	TOTALS	
GENERAL ACTIVITIES	8	12	-	46	30	5	26	3	130	
CHARTS	23	2	3	000		3	6	8	45	
CHART EXERCISES	25	12	8	6		10	54	2	117	
CLASS REPORTS	5	10	-	23	38	30	50		156	
COMPLETION ITEMS	692	111	170	166	***	1362	909	1168	4578	
DEFINITIONS	040	59	3	19	-	141	89	_	311	
DIAGRAMS	17		-	-		-	35	_	52	
DIAGRAM EXERCISES	14	-	-	-	-	-	17	***	31	
GRAPHS	39	_	122	-	1	7	74	20	266	
GRAPH EXERCISES	38	9	124	9	49	19	10	20	278	
LISTING	000s	98	135	200	12	575	103	-	1123	
MAP OUTLINES	77	16	80	23	25	4	91	50	366	
MAP EXERCISES	56	28	74	44	56	7	76	50	391	
MATCHING ITEMS	58	-	=	19	-	22	90	80	269	
MULTIPLE-CHOICE ITEMS	21	-	-	37	040	104	-	226	388	
MULTIPLE-RESPONSE	559	***	040		_	-		-	559	
PHOTOGRAPHS	4	-	en-	0.03	18	-	-	~~	22	
STUDY QUESTIONS	56	687	295	602	917	538	205	42	3342	
TRUE-FALSE ITEMS	eng	-	-	4		4.6	_	-	50	







Range 0 - 46 Average 16

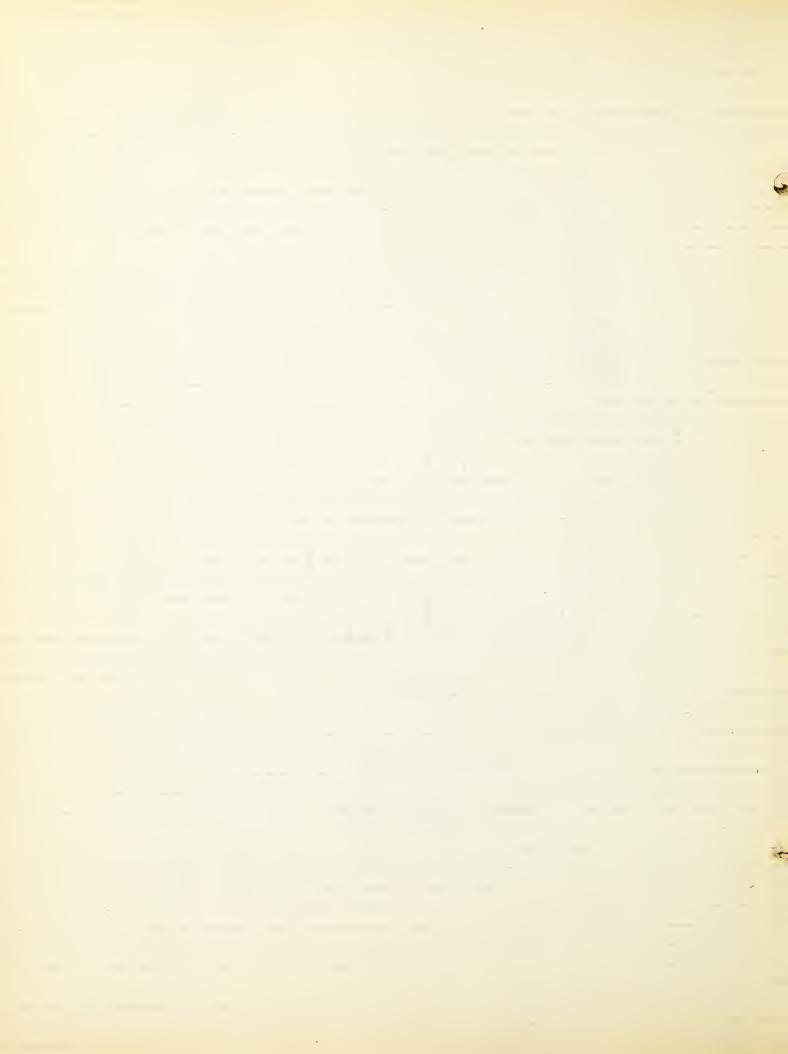


(WORKBOOKS)

FIGURE 2

NUMBER OF ACTIVITIES

SCORED IN EIGHT WORKBOOKS



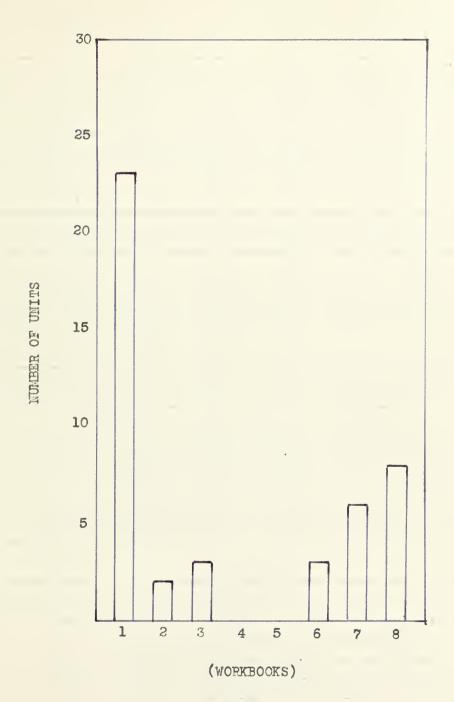
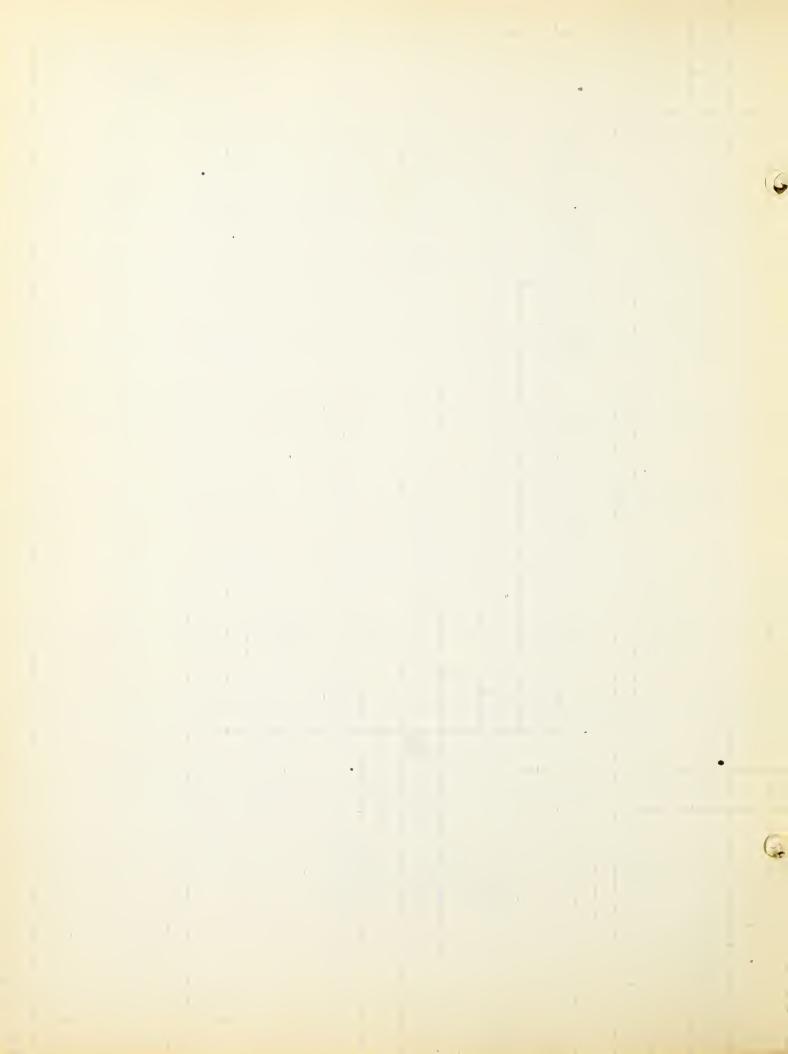


FIGURE 3

NUMBER OF CHARTS

SCORED IN EIGHT WORKBOOKS



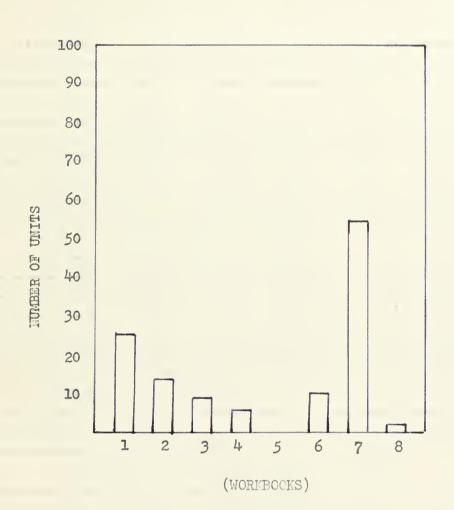


FIGURE 4

NUMBER OF CHART EXERCISES

SCORED IN EIGHT WORKBOOKS



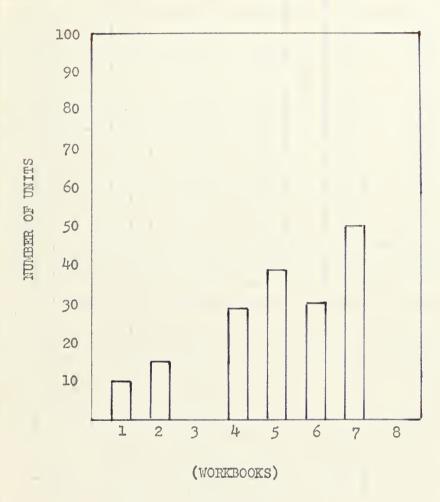


FIGURE 5

NUMBER OF CLASS REPORTS

SCORED IN EIGHT WORKBOOKS



times in seven of the eight workbooks malys d. Jurkbook V did not make use of this type of item. Completion be seen found to be the nost frequent device employed in this stury, and the average number of items per probably analyzed is 572.

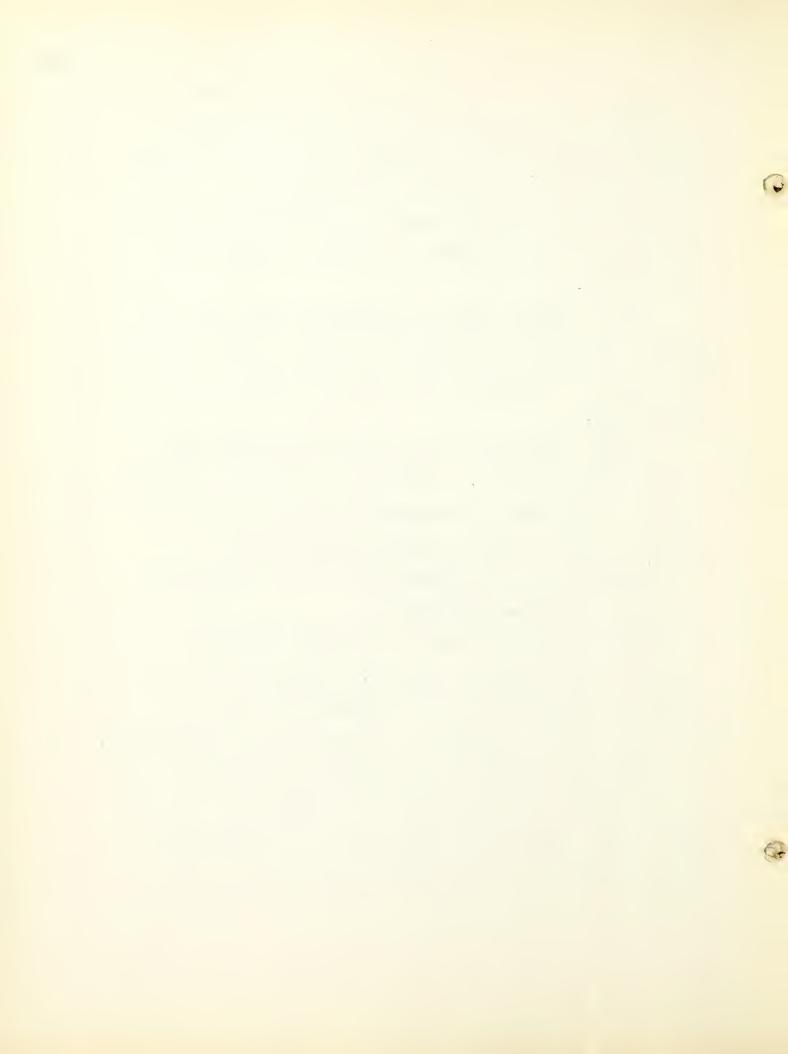
Figure 7 reveals that 311 definitions were called for in five workbooks for an average of 40 per torkbook analyzed. Workbooks I, V, and VIII do not make use of this type of questioning.

Figure 8 records the small number of diagrams that appeared in this survey. Jorkbooks I and VII were the only sources of this type of visual aid. Diagrams appeared 17 times in Jorkbook I and 35 times in Jorkbook VII.

Figure 9 shows that Workbooks I and VII have 14 and 17 diagram exercises respectfully.

Graphs were found in six of the eight orkbooks analyzed as indicated by Figure 10. Graphs appeared 266 times for an average of 33 per orkbook. The range as from zero to 122. Workbooks II and IV did not contain graphs.

Figure 11 reveals that every workbook analyzed in this study contained graph exercises which ranged from a low of nine to 124. Workbook III contains 124 graph exercises, and the average is 35 per workbook analyzed.



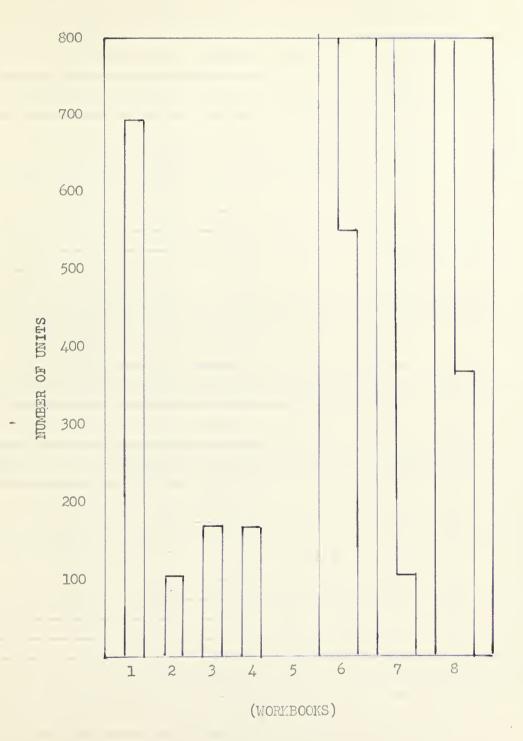
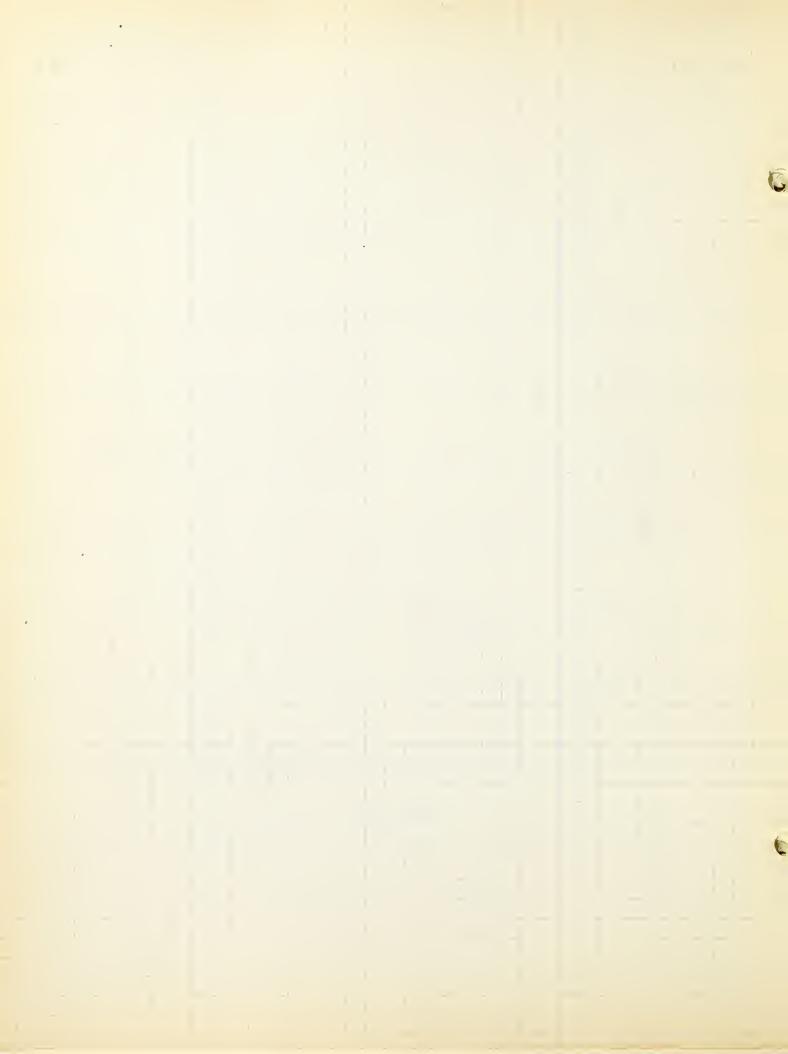


FIGURE 6

NUMBER OF COMPLETION ITEMS

SCORED IN EIGHT WORKBOOKS



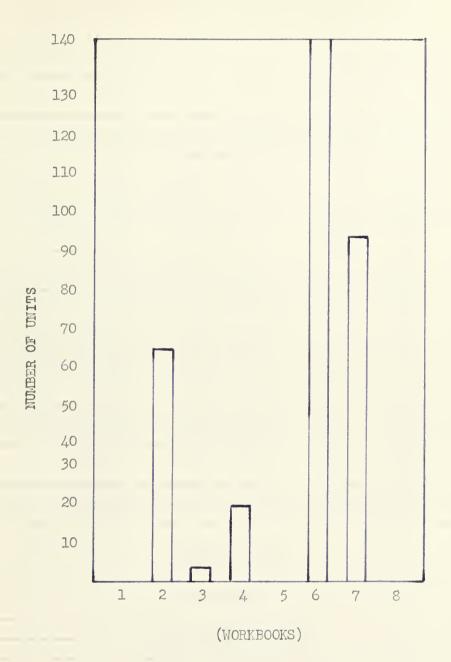
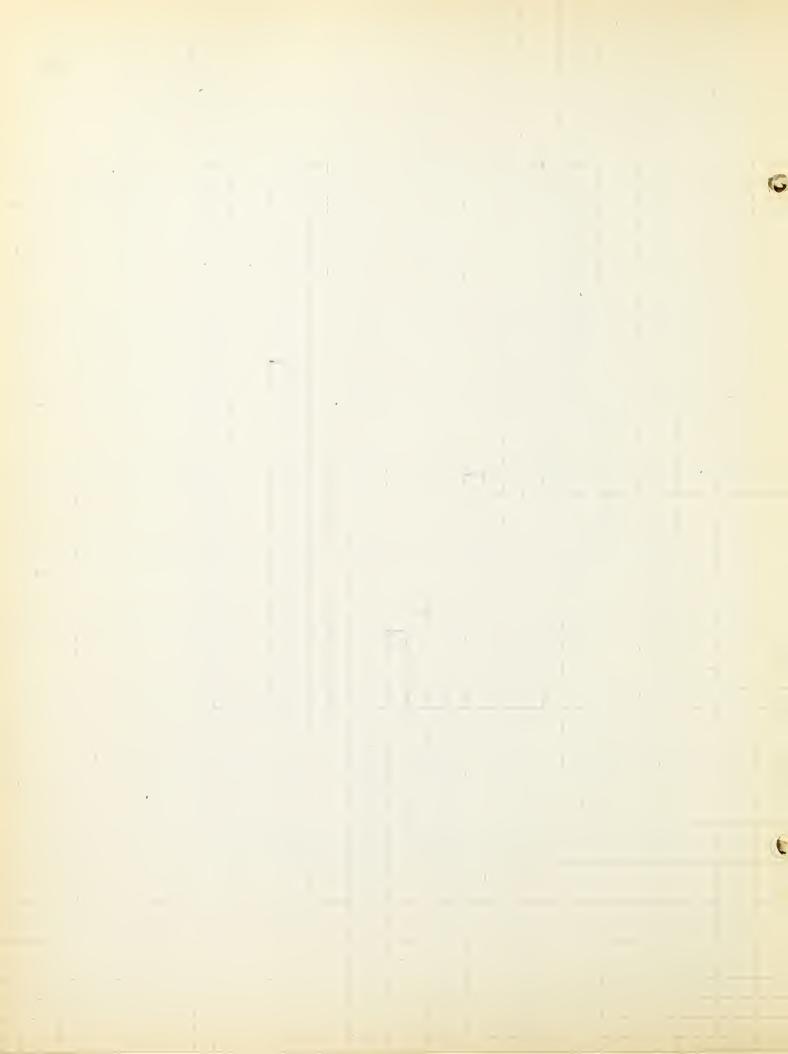


FIGURE 7

NUMBER OF DEFINITIONS CALLED FOR

SCORED IN EIGHT WORKBOOKS



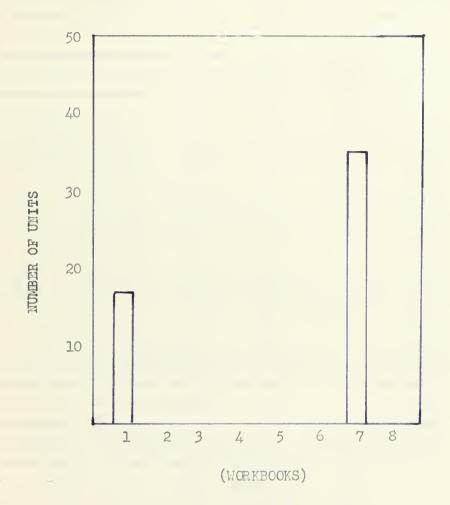
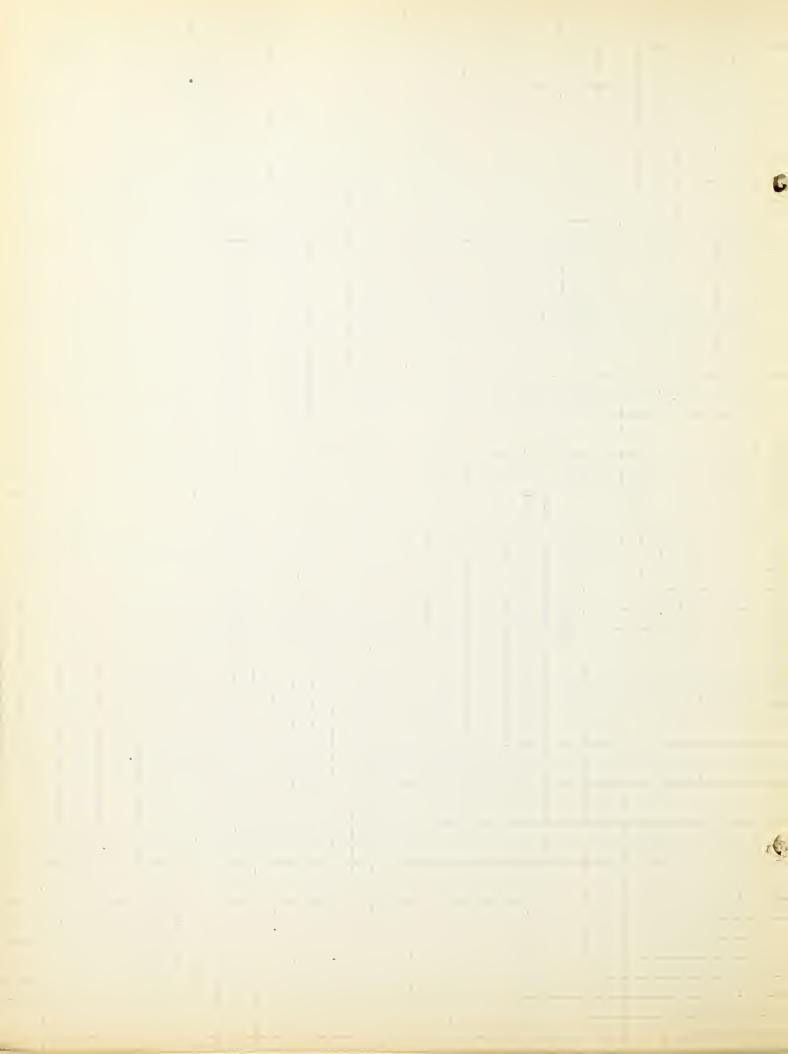


FIGURE 8

NUMBER OF DIAGRAMS

SCORED IN EIGHT WORKBOOKS



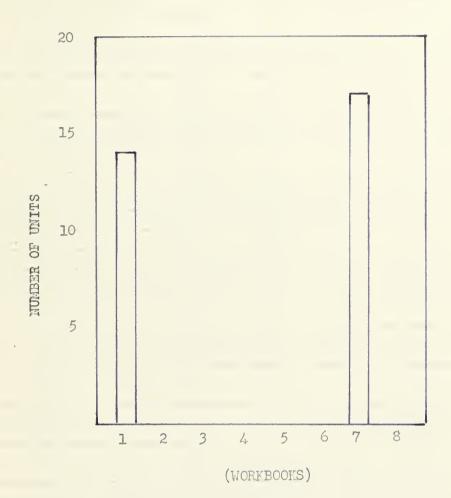


FIGURE 9

NUMBER OF DIAGRAM EXERCISES

SCORED IN EIGHT WORKBOOKS



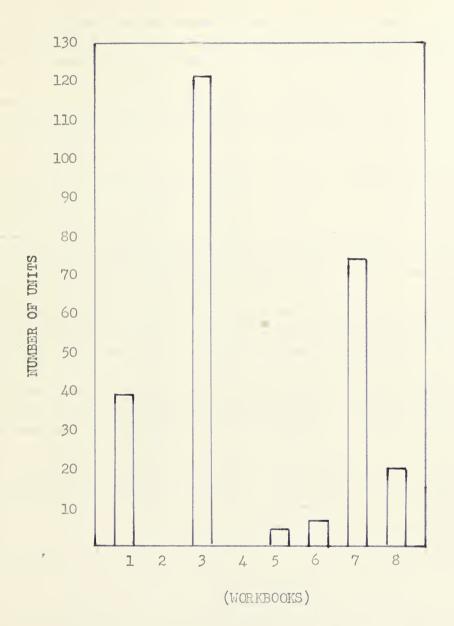
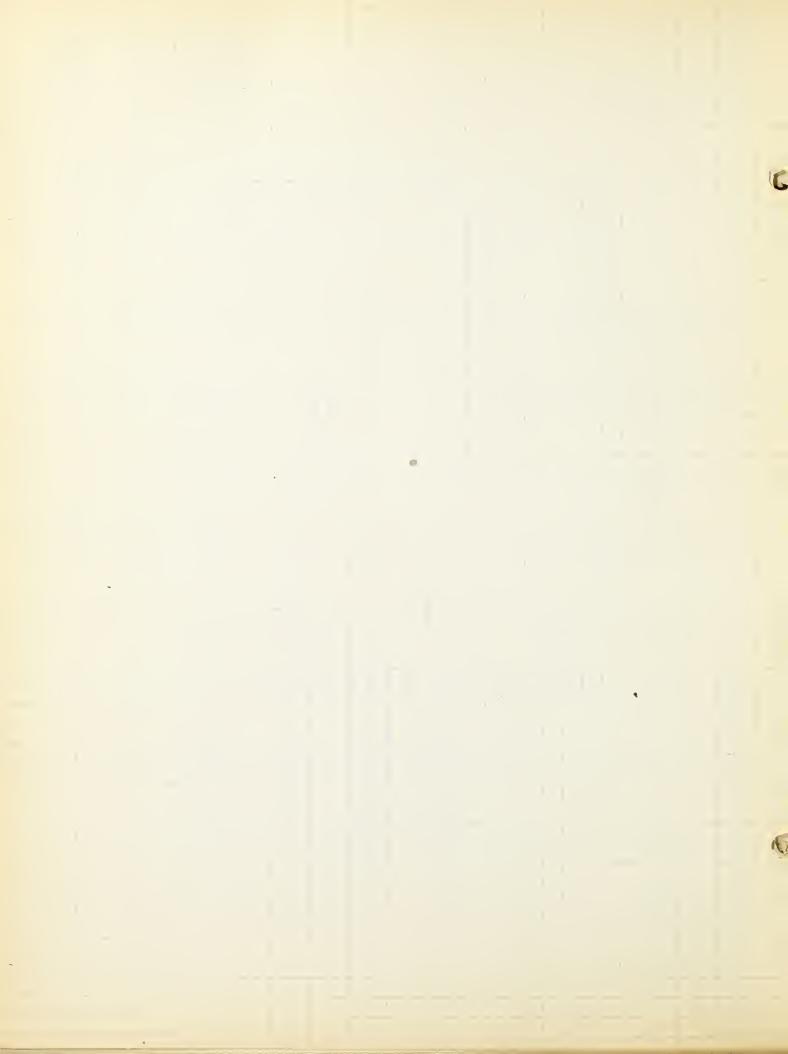


FIGURE 10

NUMBER OF GRAPHS

SCORED IN EIGHT LORKBOOKS



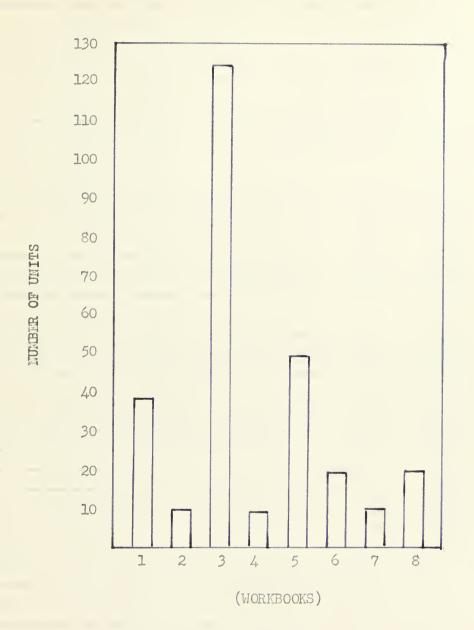


FIGURE 11

NUMBER OF GRAPH EXERCISES

SCORED IN EIGHT WORKBOOKS



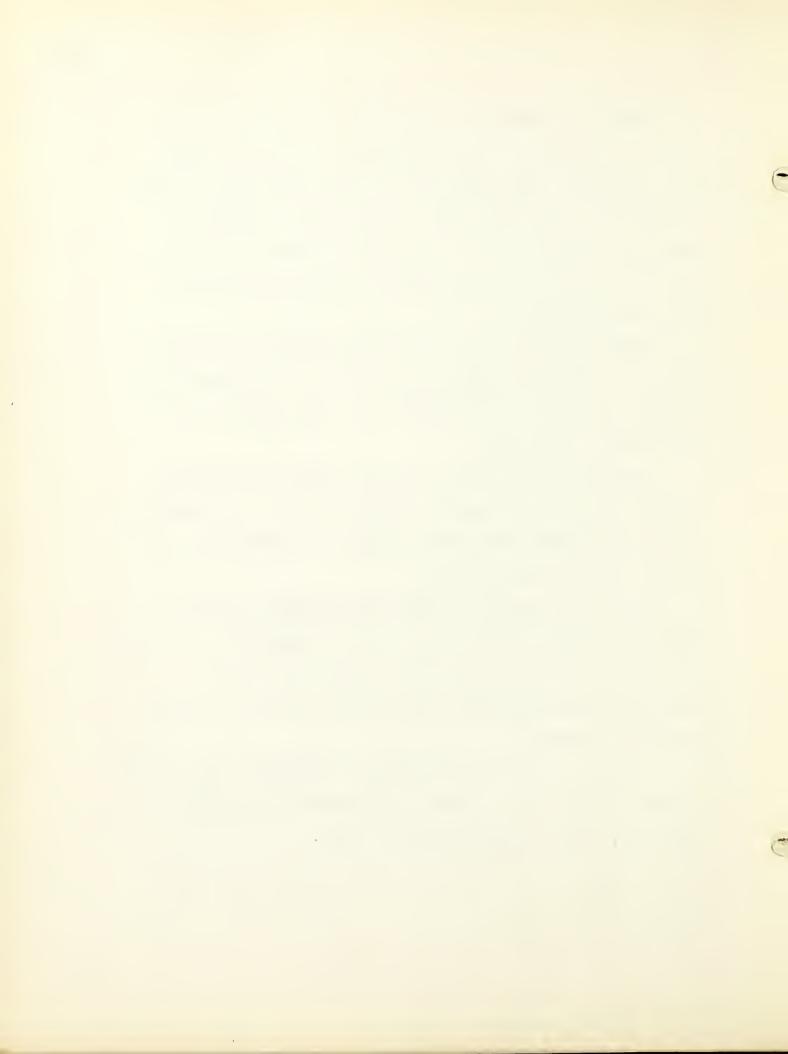
Listing exercises appeared 1123 times for an average of 140 exercises per workbook analyzed. Figure 1° shows that workbooks I and VIII were the only porkhooks in this survey that did not make use of this type of exercise. The range is from 12 to 575 in the six porkbooks that contained listing exercises. The average is 140 exercises per workbook analyzed.

Figure 13 reveals that 366 map outlines are red in the eight workbooks analyzed. The range is from four, in the book VI, to 91, in workbook VII. An average of 46 per workbook was found.

Figure 14 shows that all of the orkbooks analyzed contained man elercises with an average of 50 per workbook. The range extends from seven to 76, with workbook VII containing the greatest nu ber.

Matching items are represented in all but three of the eight workbooks analyzed as seen by Figure 15. Jorkbooks II, III, and V do not make use of this two of item. Vatching items appear 269 times for an average of 34 per workbook analyzed.

Figure 16 records the number of multiple-choice items found in this survey. Four of the workbooks, I, IV, VI, and VIII, contain multiple-choice items.



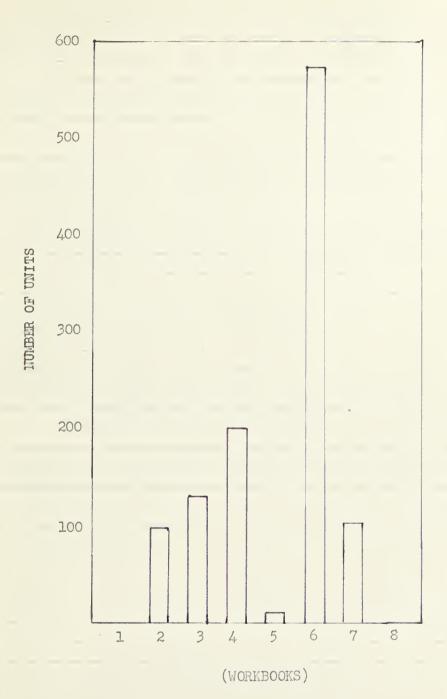


FIGURE 12

NUMBER OF LISTING EXERCISES

SCORED IN EIGHT WORKBOOKS



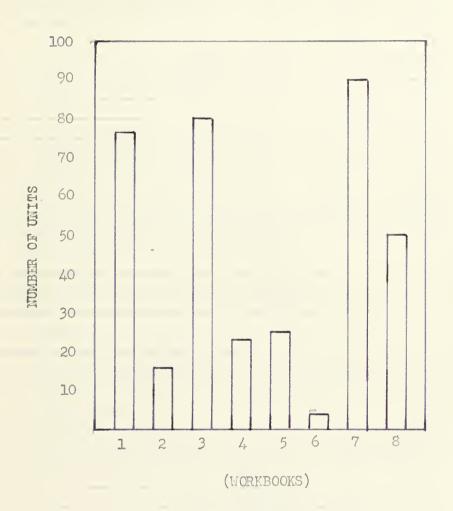


FIGURE 13

NUMBER OF MAP OUTLINES

SCORED IN FIGHT WORKBOOKS



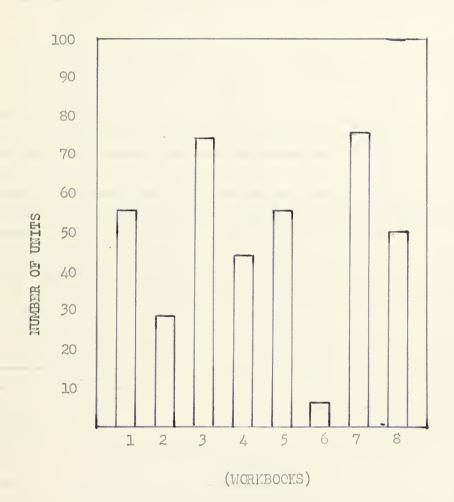


FIGURE 14

NUMBER OF MAP EXERCISES

SCORED IN EIGHT WORKBOOKS



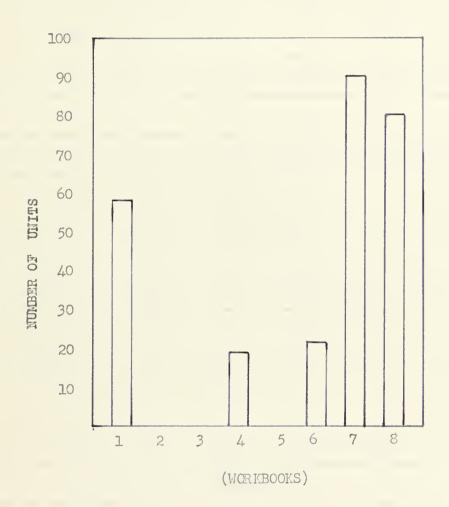
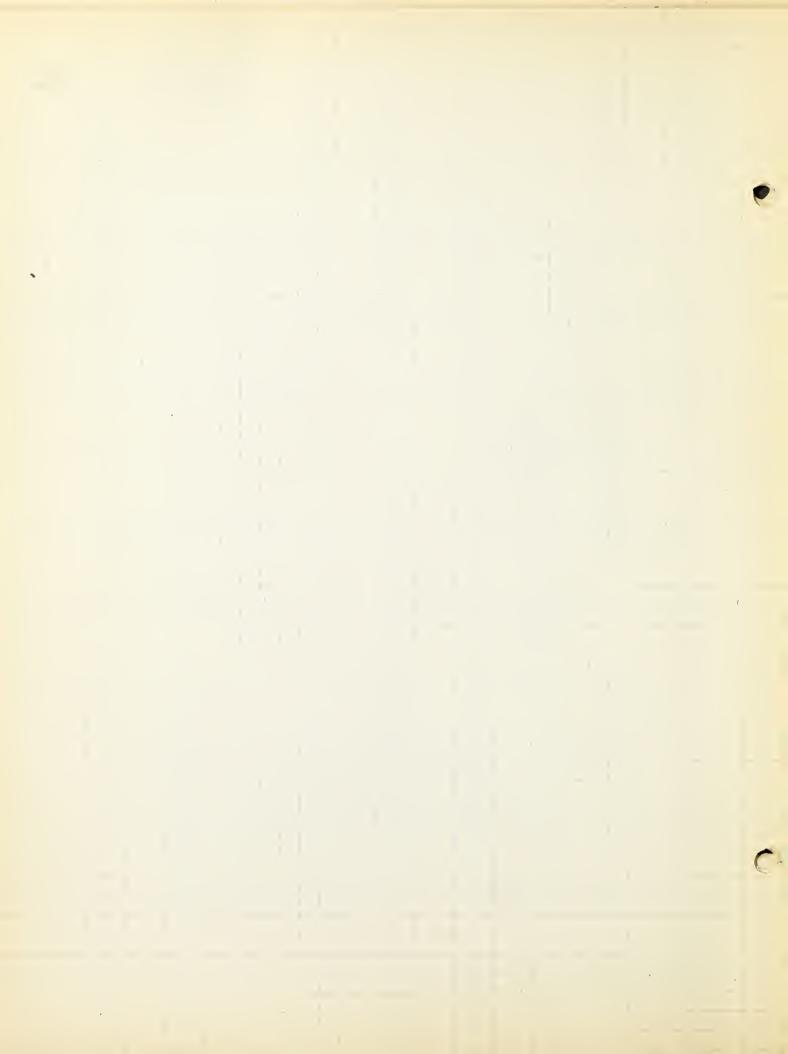


FIGURE 15

NUMBER OF MATCHING ITEMS

SCORED IN EIGHT WORKBOOKS



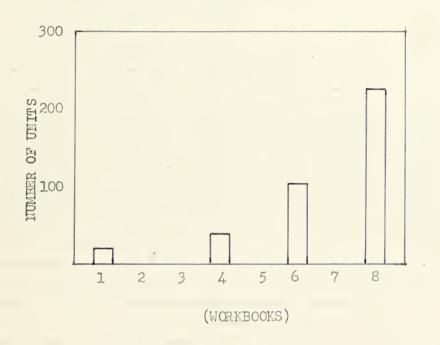


FIGURE 16

NUMBER OF MULTIPLE CHOICE ITEMS

SCORED IN EIGHT WORKBOOKS



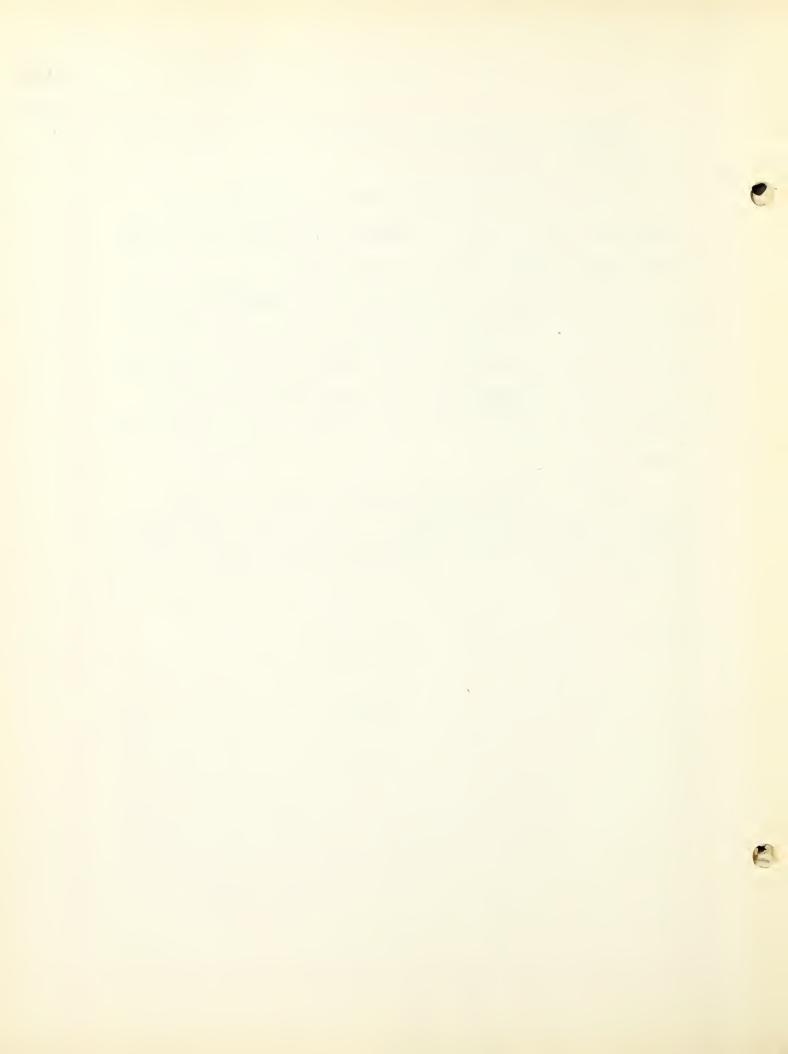
Figure 17 reveals that multiple-response items are ear in only one orkbook.

Figure 13 shows that photogram is a lear four tills in orkbook I and 1" times in workbook V. These here the only to workbooks that contained photograms.

Study questions are art of all the workbooks as soon in Figure 19. This type of question is surfaced in frequency only by completion items. Study questions are expedituled times for an average of 418 per orkbook analyzed.

Workbook V contained 917 study questions while workbook VIII contained 40.

Figure 20 shows that the use of true-false ites is made in workbooks IV and VI for a total of 50. The remaining six workbooks did not make use of this type of exercise.



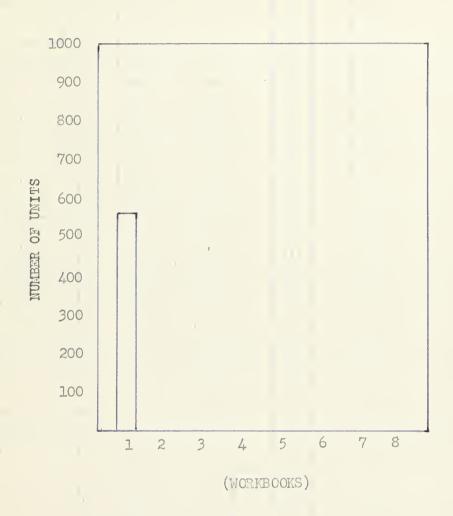
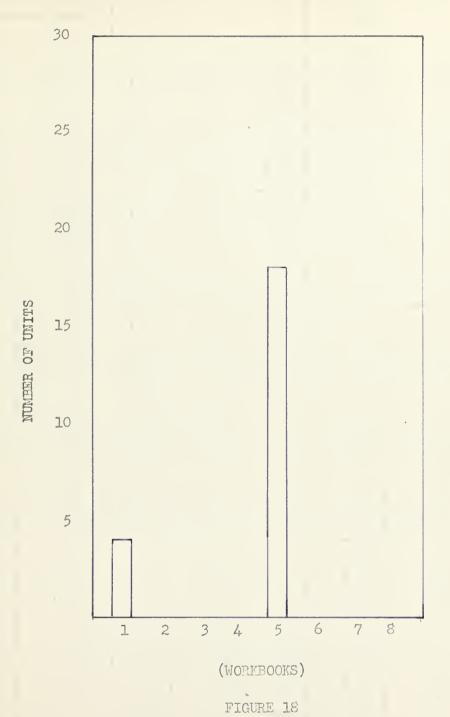


FIGURE 17

NUMBER OF MULTIPLE RESPONSE ITEMS

SCORED IN EIGHT WORKBOCKS





NUMBER OF PHOTOGRAPHS

SCOPED IN EIGHT WORKBOOKS



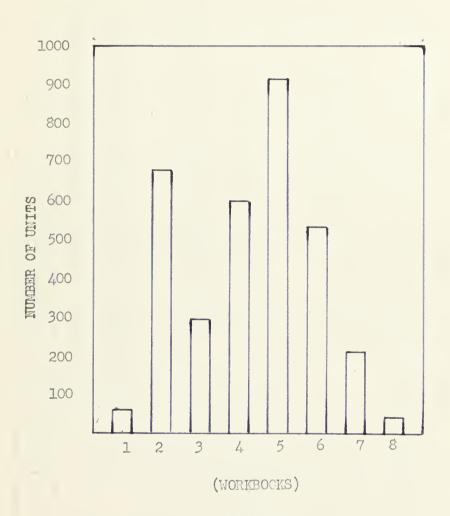


FIGURE 19

NUMBER OF STUDY QUESTIONS

SCORED IN FIGHT WORKPOOKS



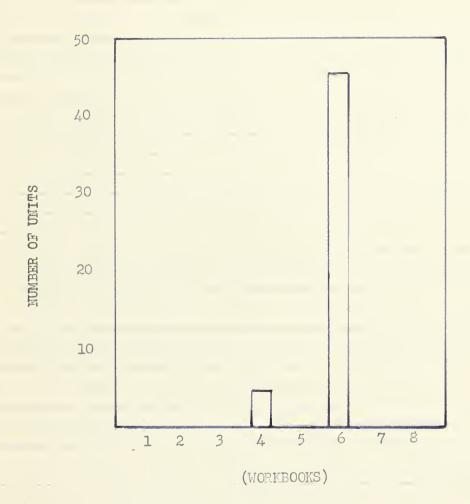
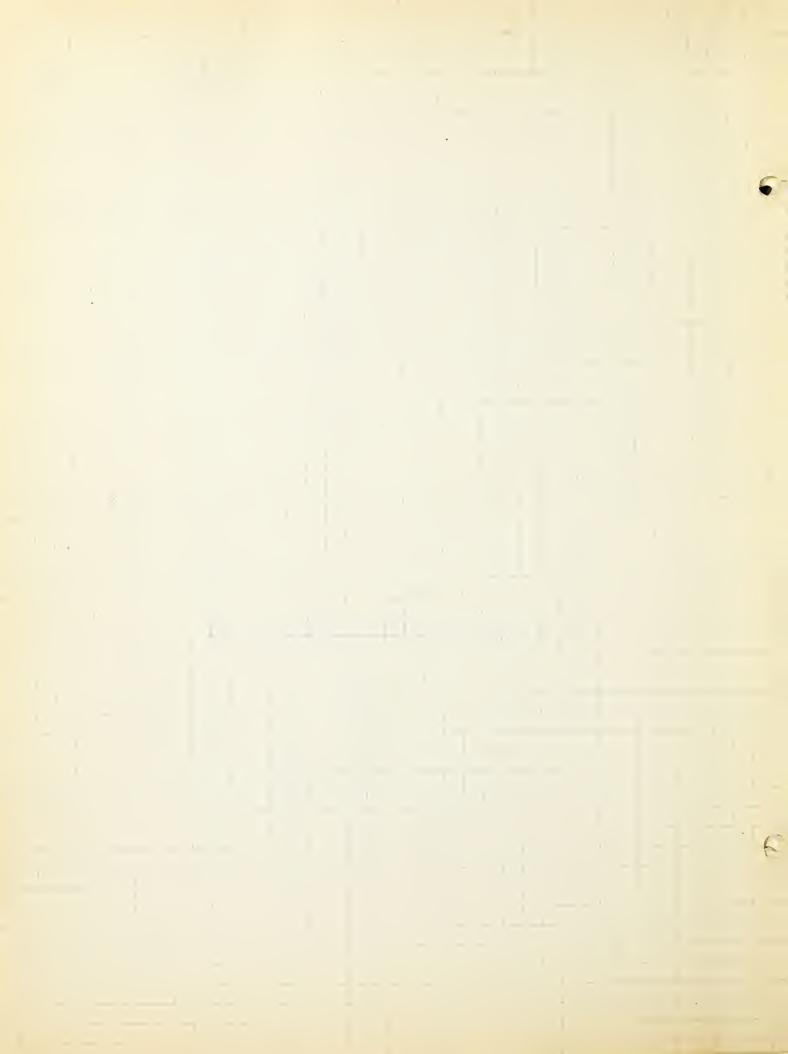


FIGURE 20

NUMBER OF TRUE-FALSE ITEMS

SCORED IN FIGHT WORKBOOKS



#### CHAPTER VI

SULFARY OF FINDINGS, CONCLUSIONS, AND ALCOHE DATIONS

The purpose of this study as to make a survey of the activities provided for high school students in eight torkbooks in economic geography.

Five objectives were formulated to serve as guides in conducting the study:

- 1. To contribute specific data for evaluating the content of workbooks in economic geography.
- 2. To determine to what extent workbooks can aid pupils to study more economically and effectively.
- 3. To make a comparison of the kinds of activities found in these workbooks.
- 4. To determine the number and types of teaching aids which these workbooks provide, such as maps, graphs, and illustrations.
- 5. To provide data in graphic form which will enable teachers to interpret easily the physical construction of workbooks in economic geography.

Based upon the objectives of the study, 19 component elements of activities were defined to serve as a basis for the survey. The following summary and conclusions are based

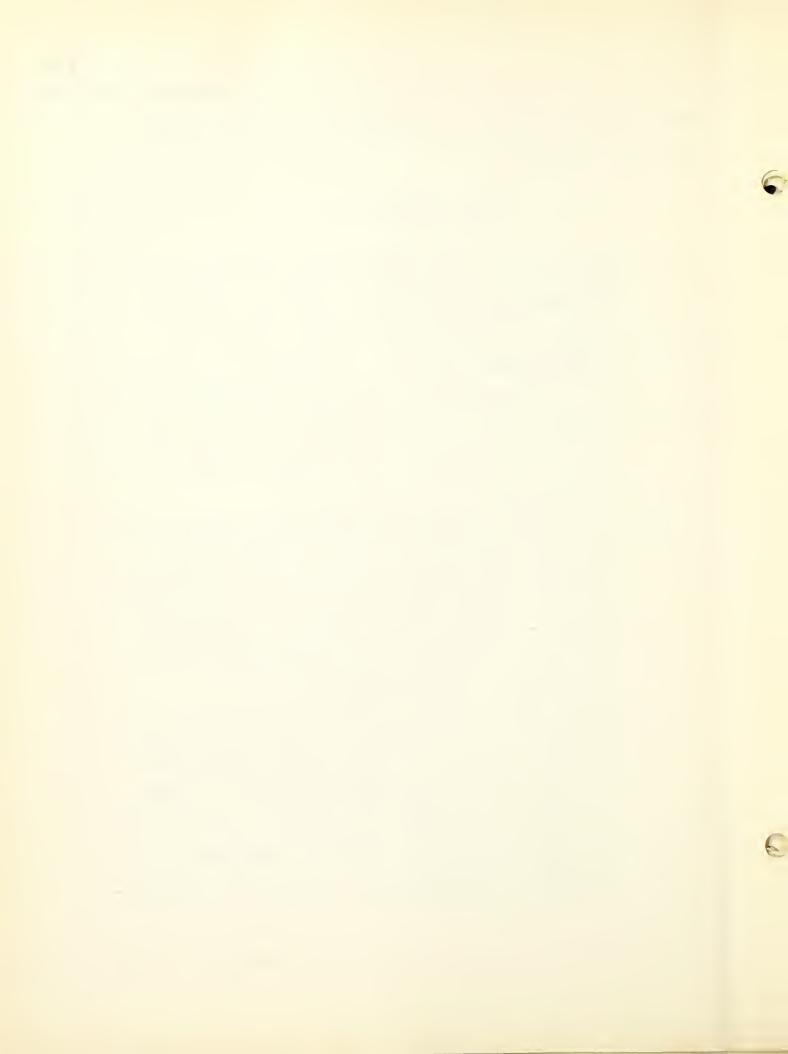


upon the data obtained from the anthysis of eight moon ic geography orkbooks.

### Sumary of Conclusions

- the completion erecise over all other activities.

  This time is represented in seven out of eight workbooks for a total of approximately 36 per cent of all the activities. Since the completion exercise requires little critical thinking, the high number of activities devoted to this type of exercise is questionable.
- 2. Iventy-six per cent of the activities i cluded in the workbooks were devoted to study questions which are considered escential elements in all of the orkbooks analyzed. Study questions appear to be desirable elements and represent the author-to-public guide to effective, econo ical learning.
- 3. The listing of names, objects, products, and places were third in frequency rating and re resent nine per cent of the total activities scored. A large percentage of this type of activity is not considered conducive to good study habits as nure memory work and routine copying without reasoning is encouraged.



- werage of 46 exercises er book in icst that his important espect is valued highly by all of the authors those orkbooks were analyzed in this study.
- 5. Graph exercises appeared 278 times in eight workbolks, but the range (9-124) indicates that several authors do not place very much exphasis upon this essential phase of teaching economic geography.
- two of the eight forkbooks analyzed, indicating that the remaining authors do not regard diagras as as important in the study of economic geography.

  Additional diagrams should be included in every unit of study.
- 7. Photographs appeared in only two of the eight work-books analyzed. More consideration should be given to photographs as aids to economical, effective learning.
- 8. Class reports appears in six of the eight corkbooks analyzed. This appears to be one area that could be easily supplemented by individual teachers.
- 9. Charts were scored infrequently for an average of six per workbook analyzed. Whether this is an indication of a wend a ay from the presentation of a mass of figures or authors neglect to present statistical



data is uncertain, but it appears that charts should be used frequently in conjunction with graph exercises to enable students to better understand the resources of their own and other countries.

- 10. True-false items and multiple-response items

  appeared very infrequently. This seems to be a

  desirable situation in that such items should be

  included as testing material and not study material.
- ll. General activities were not found often indicating preference to more standardized activities such as completion exercises, study questions, and listing exercises.
- 12. The authors whose workbooks were analyzed in this study favored the use of completion items, study questions, and listing exercises. Reyond these three most prominent activities, the authors disagree widely as to what constitutes an effective workbook for high school students of economic geography.

## Recommendations for Further Study

Through an analysis of the data obtained from the survey of the activities of eight economic geography workbooks, a research study concerned with economic geography workbooks was suggested to the writer as being worthy of research. A



ti e-analysis study should be made to bring but the differences in the relative amount of time that it requires high school students of economic geography to perform different activities, such as man completion and study questions.



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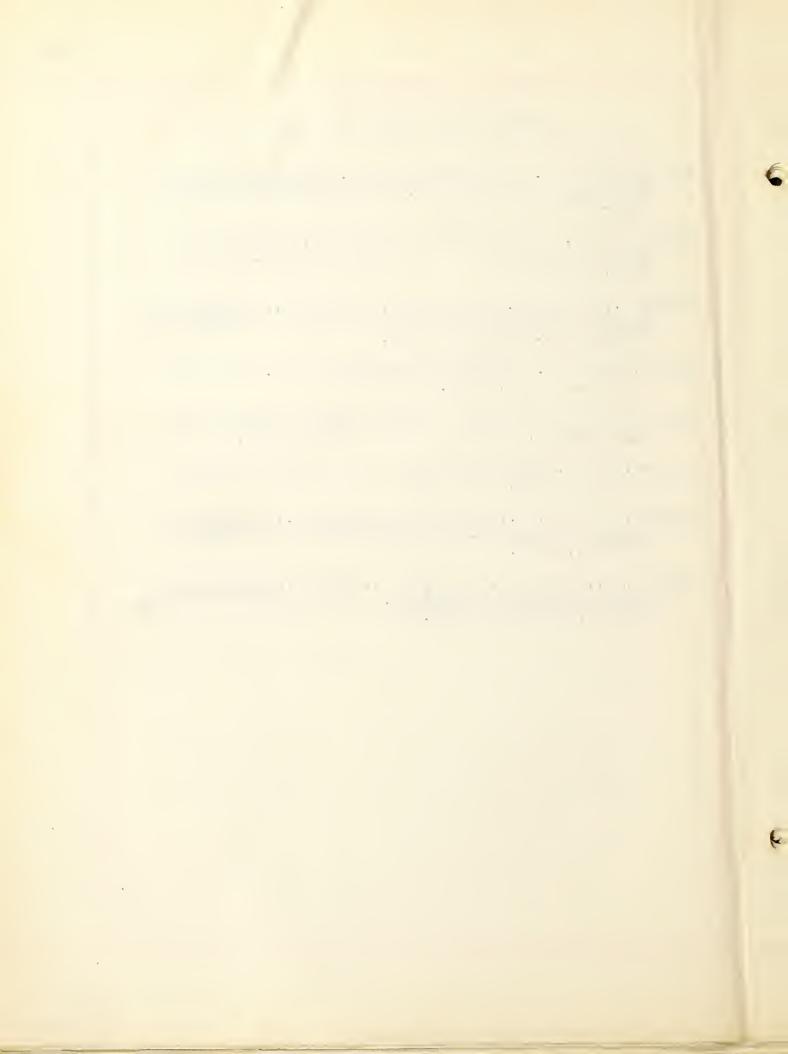
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# FOR REFERENCE

Do Not Take From This Room